

Technical data sheet date 01.10.2010

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# 2 K PLASTISTONE® Epoxid

## Easy Line

Coating systems are coloured and filled ex factory

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# 2 K PLASTISTONE® EP- Easy Floor

**Easy Line: 2-component universal coating based on epoxy resin,  
filled and coloured ex factory**

## Application areas and properties:

- As coloured sealing or as self-levelling top coating in interior zones.
- **Certified coating system according to repair guidelines OS 8 (DAfStb)**
- On substrates like concrete + screed for production halls, storage rooms, basement garages etc.
- According to layer thickness and additional filling with quartz sand or quartz flour, appropriate for light, medium and heavy loads.
- Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.
- For substrates with maximum residual moisture of 3% or in combination with EP-barrier coat as primer up to maximum residual moisture of 5%.
- Not suitable for exterior surfaces (risk of yellowing)
- Not suitable for magnesite screeds as EP-Easy Floor is vapour-proof to the largest extend.
- As general coloured construction resin for primers/primer coats, for casting cracks and with addition of fillers also appropriate as mortar for closing holes.
- Can be used as flow and shrinkage hole filling (fine spatula)

<b>Available bundle sizes 2 K PLASTISTONE® EP-Easy Floor solvent-free, coloured</b>		
<b>Art.-no:</b>	<b>Content:</b>	<b>Bundle composition:</b>
061001+RAL Nr.-Y01	<b>6.25 kg</b>	<b>Comp.A: 5.05 kg; Comp.B: 1.20 kg in 2 K bundle</b>
061001+RAL Nr.-Y02	<b>15.00 kg</b>	<b>Comp.A: 12.14 kg; Comp.B: 2.86 kg in 2 K bundle</b>
061001+RAL Nr.-Y03	<b>30.00 kg</b>	<b>Comp.A: 24.28 kg; Comp.B: 5.72 kg</b>

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## 2 K PLASTISTONE® EP-Easy Floor solvent-free, coloured

<b>Properties:</b>	<ul style="list-style-type: none"> <li>→ Due to its good penetrating power on mineral substrates, the surfaces of concrete and screed floors are strain-hardened and thus sanding and dust formation are avoided.</li> <li>→ <b>Certified coating system according to repair guidelines OS 8 (DAFStb)</b></li> <li>→ Self-levelling from a layer thickness of 1.0 mm</li> <li>→ <b>The standard curing version is recommended for temperatures of &gt; 15°C.</b></li> <li>→ Available in 26 different standard colour shades.</li> <li>→ For all surfaces with high visual demands in interior sections (like gloss level, surface optics, yellowing sensitivity etc.) we recommend the 2K EP-Easy Elastic products.</li> <li>→ By full-surface dispersal with colour chips and subsequent double colourless coating, terrazzo-like surfaces can be achieved that excel in a high scratch resistance and sure footedness.</li> <li>→ In visual areas, like entrance halls, staircases, exposition halls, offices, where increased scratch resistance is required, we recommend to disperse a minimum of 100g/m<sup>2</sup> colour chips onto the fresh self-levelling coating as additional protection. After curing, apply a colourless PU-sealing in one or two process steps (from 200g/m<sup>2</sup> colour chips, two process steps become necessary).</li> <li>→ As colourless, glossy sealing we recommend the EP-sealing water-emulsified for thin layer types (with ~ 0.10-0.12 kg/m<sup>2</sup>) or EP-colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> <li>→ If a higher UV and scratch resistance is required, especially for visually demanding surfaces, we recommend the silk-mat 1 component or 2 component PU-sealing (with ~ 0.10-0.12 kg/m<sup>2</sup>)</li> <li>→ In combination with anti-slip grit and a colourless sealing, you can achieve non-skid surfaces. Furthermore we recommend for visually appealing surfaces that shall not be dispersed with colour chips on the surface, thus stay plain-coloured, a minimum layer application of 2.5 kg/m<sup>2</sup> (~ 2mm), so that small impurities (mostly inevitable in practice) in thin coatings do not rest in the surface as unaesthetic inclusions. Additionally a colourless and silk-mat sealing as conclusion helps protecting the surface from scratches. Please mind the general advice in catalogue group 1!</li> </ul>
<b>Possible product combinations:</b>	<p><b><u>EP-Easy Floor can be integrated in superstructures with the following products:</u></b></p> <ul style="list-style-type: none"> <li>→ <b>Primer:</b> 2 K PLASTISTONE® EP-primer slow and rapid, 2 K PLASTISTONE® EP-barrier coat</li> <li>→ <b>Fine spatula and mortar:</b> 2 K PLASTISTONE® EP-fine spatula slow and rapid and 2 K PLASTISTONE® EP-mortar slow and rapid</li> <li>→ <b>Additional coloured satin-gloss / mat sealing:</b> 1 K PU-sealing LH satin-gloss or 2 K PU-sealing WE mat</li> <li>→ <b>Additional colourless glossy sealing:</b> EP-sealing water-emulsified for thin layer types (~ 0.10-0.12 kg/m<sup>2</sup>) or EP-colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> </ul>
<b>Safety data sheets:</b>	<ul style="list-style-type: none"> <li>→ On our homepage, domain Shop Articles</li> </ul>
<b>Resistance:</b>	<ul style="list-style-type: none"> <li>→ See catalogue group 1 Chemical resistance of coating surfaces</li> <li>→ See OS 8 test certificate</li> </ul>
<b>GISCODE:</b>	<ul style="list-style-type: none"> <li>→ RE 1 (epoxy resin products, solvent-free)</li> </ul>
<b>CE Norm:</b>	<ul style="list-style-type: none"> <li>→ As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,7-IR8</li> </ul>

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## 2 K PLASTISTONE® EP-Easy Floor solvent-free, coloured

<b>Substrate quality:</b>	<ul style="list-style-type: none"> <li>→ Concrete: minimum B 25, screed: minimum ZE 30, age: 28 days minimum,</li> <li>→ Adhesive tensile strength: 1.5 N/mm<sup>2</sup> minimum</li> <li>→ Residual moisture: &lt; 3 % on each position (measured acc. to CM-method)</li> <li>→ See catalogue group 1: general advice</li> </ul>
<b>Subsurface preparation:</b>	<ul style="list-style-type: none"> <li>→ The surface needs to be clean, surface-dry and stable. It must be freed from oils, fats, old paints, cement slurries and other contaminations by grinding, shot-blasting or milling.</li> <li>→ <b>Attention!</b> On very hard and dense surfaces (well visible on the greasy-shiny surface) you need to pay attention to a sufficient surface pretreatment, suitable methods are: cross-wise shot-blasting or intense abrasion with a sander with diamond blade (sand paper is unsuitable). Non-sanded or badly sanded surfaces prevent the primer's penetration.</li> <li>→ If old coatings are to be revised, they should be grinded beforehand or an alkaline basic cleaning with disc machine and cleaning or grinding pad should be executed.</li> <li>→ See catalogue group 1 General requirements to subsurface</li> </ul>
<b>Processing conditions:</b>	<ul style="list-style-type: none"> <li>→ <b>Air and substrate temperature:</b> minimum 10°C, max. 30°C</li> <li>→ Best results are being achieved between 15°C – 25°C!</li> <li>→ <b>Relative humidity:</b> max. 80%, do not process on dew point conditions.</li> <li>→ Humidity impact during curing may result in veil formation!</li> <li>→ See catalogue group 1: ambience conditions</li> </ul>
<b>Mixing of EP-Easy Floor:</b>	<ul style="list-style-type: none"> <li>→ Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min.</li> <li>→ In case of addition of fillers, this can be done now with the agitator running.</li> <li>→ Attention! A manual mixing of components A and B is not possible as this would not result in sufficient curing.</li> <li>→ Generally it is recommended to immediately disperse the mixed material on the surface as it stays longer processible this way.</li> </ul>
<b>Processing as primer:</b>	<ul style="list-style-type: none"> <li>→ Disperse with paint roller or rubber squeegee and re-roll after ~ 20 min. without additional material. This ensures a complete impregnation of the substrate which often replaces an additional levelling compound of the substrate. <b>Furthermore processing time is considerably prolonged.</b></li> <li>→ On very thin substrates, we recommend adding 5 % max of EP-thinner.</li> </ul>
<b>Processing as sealing:</b>	<ul style="list-style-type: none"> <li>→ On the first painting of dense concrete and screed floors, you can add up to 5 % max EP-thinner; the second paint should then be executed undiluted for achieving a good opacity.</li> <li>→ Seamless rolling is necessary for achieving an even grain. Irregular application results in streaking.</li> <li>→ Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction.</li> <li>→ Processing with a rubber squeegee ensures a complete impregnation of the substrate which often replaces an additional levelling compound of the substrate. <b>Furthermore processing time is considerably prolonged.</b></li> </ul>

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## 2 K PLASTISTONE® EP–Easy Floor solvent-free, coloured

<b>Processing as self-levelling coating:</b>	→	Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min. Discharge the mix onto the surface and disperse with a notched trowel and well deaerate cross-wise with a spiked roller.
	→	Only process coatings with harmonised toothing. Only then you will get correspondingly good surface results. Basically processing without sharp teeth (even trowel) is not possible.
	→	Surface division needs to be effected in that kind of way that coating laps on the surface are 15 minutes old maximum.
	→	Immediately after application, well deaerate the coating with a spiked roller. Make sure you are using the roller in reverse direction to the material application.

### OS 8 system structure as per protection and repair guidelines (DAfStb)

Structure:	As protective measure 1.5 mm	As repair measure 2.5 mm
<b>Subsurface preparation:</b>	Shot-blasting or milling	Shot-blasting or milling
<b><u>1<sup>st</sup> layer:</u></b> 2K EP-primer (construction resin) A+B	0.50 kg/m <sup>2</sup>	0.50 kg/m <sup>2</sup>
Application method:	Apply with rubber squeegee and re-roll with paint roller.	
Quartz sand broadcasting of first layer	0.50 kg size 0.3-0.8mm	0.50 kg size 0.3-0.8mm
Application method:	Slightly broadcast the fresh first layer, not to excess.	
Optional position:	According to substrate and/or customer demand, a leveling compound needs to be applied on parts of or on the whole surface. Consumption rates on page 6	
<b><u>2<sup>nd</sup> layer:</u></b> 2K EP-Easy Floor A+B	0.50 kg/m <sup>2</sup>	0.80 kg/m <sup>2</sup>
Application method:	Apply with rubber squeegee and re-roll with paint roller.	Apply with rubber squeegee or trowel toothing no.10 and re-roll with paint roller.
Quartz sand broadcasting to excess of fresh second layer	3.0 kg size 0.3-0.8mm	3.0 kg size 0.7-1.2mm
Application method:	Broadcast the fresh second layer to excess. After curing, sweep away the excess sand and abrade with a steel blade. Then vacuum the surface with an industrial vacuum cleaner.	
<b><u>3<sup>rd</sup> layer:</u></b> 2K EP-Easy Floor A+B	0.50 kg/m <sup>2</sup>	0.65 kg/m <sup>2</sup>
Application method:	Equally and saturatedly apply the material with the paint roller according to consumption rates. Access the rolled surface by using spiked shoes and roll another time crosswise with a large surface paint roller without additional material.	
Optional position: <b><u>4<sup>th</sup> layer:</u></b> 2K EP-Easy Floor A+B	As per customer demand and required grain, we recommend applying a second top sealing with ~ 0.25-0.30kg. (You can roll thinner this time)	

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## 2 K PLASTISTONE® EP–Easy Floor solvent-free, coloured

The following technical values have been achieved with EP-Easy Floor comp.A+B.  
 Mechanical values change when filler materials are added. Refer to the values in group 3 of EP-self-levelling coatings 1-1.5mm/1.5-2mm/2.5-3mm.

Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate.

<b>Product data:</b>	<b>Component A:</b>	<b>Component B:</b>
Viscosity at 23 °C:	~ 4900 mPas.	~ 120 mPas.
Solids content:	~ 100 %	
Mix ratio PBW:	100 PBW	23.5 PBW
Mix ratio PBV:	66 PBV	23.5 PBV
Mixing time:	2 – 4 min.	
Pot life at 20°C:	~ 30 to 40 min. / 300 g preparation as per filling Attention! Larger preparations or higher temperatures shorten pot life (processing time)	
Curing time at 20°C:	Can be overlain after ~ 16 h, slightly chargeable after ~ 24h, trafficable after ~ 48 h, fully chemically and mechanically chargeable after 7 days. Attention! Curing times are strongly influenced by subsurface and surrounding temperature. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)	
Shelf life:	~ 6 months at 15°C to 25°C storage temperature, afterwards agitating the fillers of comp. A may be hindered.	
Colour:	According to colour chart	
Cleaner:	EP-thinner (if no curing has taken place)	
<b>Mechanical values:</b>		
Test in system structure as per repair guidelines OS 8 System structure described on page 4:	<b>Test report no. P 6257 of Kiwa Polymer Institute Flörsheim (Mechanical values of OS 8 coating as per test report)</b>	
<b>Further mechanical properties:</b>	<b>Test report no. P 3835-43a of Polymer Institute Flörsheim</b>	
<b>The indicated values have been achieved during testing without additional material filling!</b>		
Shore D hardness DIN 53505:	~ 72 Shore D	
Adhesive tensile strength DIN EN 1542:	~ 3.7 N/mm <sup>2</sup> 100% crack in concrete	
Abrasion resistance DIN EN ISO 5470-1:	(Taber) ~ 33 mg/1000 U	
Bending tensile strength DIN EN 196-1:	~ 67.5 N/mm <sup>2</sup>	
Bending tensile strength DIN EN ISO 178:	~ 44.0 N/mm <sup>2</sup>	
Compressive strength DIN EN 196-1:	~ 73.6 N/mm <sup>2</sup>	
Compressive strength DIN EN ISO 604:	~ 50.2 N/mm <sup>2</sup>	
Impact resistance DIN EN ISO 6272	≤ 16 Nm	

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## 2 K PLASTISTONE® EP–Easy Floor solvent-free, coloured

### Suggested formulations and consumption for primers/sealings/spattling compound:

	Primer ~ 0.35 mm	Sealing ~ 0.50 mm	Sealing ~ 1.00 mm	Levelling comp. 1 mm layer	EP-mortar 10 mm layer
Process steps, as per substrate:	1 x	2 x	2 x	1 x	1 x
Application tools:	Rubber squeegee+ paint roller	paint roller	Toothing no. 10+ paint roller	trowel	trowel
Material requir. per m <sup>2</sup> : Easy Floor A+B	0.3 – 0.5 kg	2x 0.25-0.35 kg	2x 0.75–0.85 kg	1.00 kg	2.00 kg
Material requir. per m <sup>2</sup> : additives	---	---	---	*( 80 % ) 0.80 kg	** 20.00 kg
Material requir. per m <sup>2</sup> : Easy Floor A+B with additives	---	---	---	1.80 kg	22.00 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.41 kg / l	1.80 kg / l	2.20 kg / l

### Suggested formulations and consumption for self-levelling coatings:

Coatings:	1 mm layer	1.5 mm layer	1.5 mm layer	2 mm layer	2.5 mm layer	3 mm layer
Process steps, as per substrate:	1 x	1 x	1 x	1 x	1 x	1 x
Application tools trowel toothing no:	No. 20	No. 23	No. 23	No. 25	No. 25	No. 78
Material requir. per m <sup>2</sup> : Easy Floor A+B	1.41 kg	2.10 kg	1.90 kg	2.20 kg	2.50 kg	3.00 kg
Material requir. per m <sup>2</sup> : additives	---	---	*( 25 % ) 0.47 kg	*( 50 % ) 1.10 kg	*( 80 % ) 2.00 kg	*( 80 % ) 2.40 kg
Material requir. per m <sup>2</sup> : Easy Floor A+B with additives	---	---	2.37 kg	3.30 kg	4.50 kg	5.40 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.58 kg / l	1.65 kg / l	1.80 kg / l	1.80 kg / l

**Additives:**

\* Filler for Easy Floor

\*\* Mortar filler mix

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# 2 K PLASTISTONE® EP-

## Easy Floor rapid

Easy Line: coloured and filled ex factory,  
 2 comp. Universal coating based on epoxy resins  
 fast curing

### Application areas and properties:

- As coloured sealing or as self-levelling top coating in interior zones.
- **Certified coating system according to repair guidelines OS 8 (DAfStb)**
- On substrates like concrete + screed for production halls, storage rooms, basement garages etc.
- According to layer thickness and additional filling with quartz sand or quartz flour, appropriate for light, medium and heavy loads.
- Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.
- For substrates with maximum residual moisture of 3% or in combination with EP-barrier coat as primer up to maximum residual moisture of 5%.
- Not suitable for magnesite screeds as EP-Easy Floor is vapour-proof to the largest extend.
- As standard coloured construction resin for primers/primer coats, for casting cracks and with addition of fillers also appropriate as mortar for closing holes.
- Can be used as flow and shrinkage hole filling (fine spatula)

### **Available bundle sizes 2 K PLASTISTONE® EP-Easy Floor rapid solvent-free, coloured**

Art.-no:	Content:	Bundle composition:
061002+RAL Nr.-Y01	<b>6.25 kg</b>	Comp.A: 5.05 kg; Comp.B: 1.20 kg <b>in 2 K bundle</b>
061002+RAL Nr.-Y02	<b>15.00 kg</b>	Comp.A: 12.14 kg; Comp.B: 2.86 kg <b>in 2 K bundle</b>
061002+RAL Nr.-Y03	<b>30.00 kg</b>	Comp.A: 24.28 kg; Comp.B: 5.72 kg



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## 2 K PLASTISTONE® EP-Easy Floor rapid solvent-free, coloured

<b>Properties:</b>	<ul style="list-style-type: none"> <li>→ Due to its good penetrating power on mineral substrates, the surfaces of concrete and screed floors are strain-hardened and thus sanding and dust formation are avoided.</li> <li>→ <b>Certified coating system according to repair guidelines OS 8 (DAfStb)</b></li> <li>→ Self-levelling from a layer thickness of 1.0 mm</li> <li>→ <b>The fast curing version is recommended for temperatures &lt; 25°C.</b></li> <li>→ For all surfaces with high visual demands in interior sections (like gloss level, surface optics, yellowing sensitivity etc.) we recommend 2K EP-Easy Elastic rapid.</li> <li>→ Available in 26 different standard colour shades.</li> <li>→ By full-surface dispersal with colour chips and subsequent double colourless coating, terrazzo-like surfaces can be achieved that excel in a high scratch resistance and sure footedness.</li> <li>→ In visual areas, like entrance halls, staircases, exposition halls, offices, where increased scratch resistance is required, we recommend to disperse a minimum of 100g/m<sup>2</sup> colour chips onto the fresh self-levelling coating as additional protection. After curing, apply a colourless PU-sealing in one or two process steps (from 200g/m<sup>2</sup> colour chips, two process steps become necessary).</li> <li>→ As colourless, glossy sealing we recommend the EP-sealing water-emulsified for thin layer types (with ~ 0.10-0.12 kg/m<sup>2</sup>) or EP-colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> <li>→ If a higher UV and scratch resistance is required, especially for visually demanding surfaces, we recommend the silk-mat 1 component or 2 components PU-sealing (with ~ 0.10-0.12 kg/m<sup>2</sup>).</li> <li>→ In combination with anti-slip grit and a colourless sealing, you can achieve non-skid surfaces.</li> <li>→ Furthermore we recommend for visually appealing surfaces that shall not be dispersed with colour chips on the surface, thus stay plain-coloured, a minimum layer application of 2.5 kg/m<sup>2</sup> (~ 2mm), so that small impurities (mostly inevitable in practice) in thin coatings do not rest in the surface as unaesthetic inclusions. Additionally a colourless and silk-mat sealing as conclusion helps protecting the surface from scratches.</li> <li>→ Please mind the general advice in catalogue group 1!</li> </ul>
<b>Possible product combinations:</b>	<p><b><u>EP-Easy Floor can be integrated in superstructures with the following products:</u></b></p> <p><b>Primer:</b></p> <ul style="list-style-type: none"> <li>→ 2 K PLASTISTONE® EP-primer slow or rapid, 2 K PLASTISTONE® EP-barrier coat</li> </ul> <p><b>Fine spatula and mortar:</b></p> <ul style="list-style-type: none"> <li>→ 2 K PLASTISTONE® EP-fine spatula slow or rapid and 2 K PLASTISTONE® EP-mortar slow and rapid</li> </ul> <p><b>Additional colourless satin-gloss / mat sealing:</b></p> <ul style="list-style-type: none"> <li>→ 1 K PU-sealing LH satin-gloss or 2 K PU-sealing WE mat</li> </ul> <p><b>Additional colourless glossy sealing:</b></p> <ul style="list-style-type: none"> <li>→ EP-sealing water-emulsified for thin layer types (~ 0.10-0.12 kg/m<sup>2</sup>) or EP-colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> </ul>
<b>Safety data sheets:</b>	<ul style="list-style-type: none"> <li>→ On our homepage, domain Shop Articles</li> </ul>
<b>Resistance:</b>	<ul style="list-style-type: none"> <li>→ See catalogue group 1 Chemical resistance of coating surfaces</li> <li>→ See OS 8 test certificate</li> </ul>
<b>GISCODE:</b>	<ul style="list-style-type: none"> <li>→ RE 1 (epoxy resin products, solvent-free)</li> </ul>
<b>CE Norm:</b>	<ul style="list-style-type: none"> <li>→ As per DIN EN13813: CE-label: EN 13813 SR-AR1-B4,4-IR16</li> </ul>

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**2 K PLASTISTONE® EP-Easy Floor rapid solvent-free, coloured**

<b>Substrate quality:</b>	→ → → →	Concrete: minimum B 25, screed: minimum ZE 30, age: 28 days minimum, Adhesive tensile strength: 1.5 N/mm <sup>2</sup> minimum Residual moisture: < 3 % on each position (measured acc. to CM-method) See catalogue group 1: general advice
<b>Subsurface preparation:</b>	→ → → →	The surface needs to be clean, surface-dry and stable. It must be freed from oils, fats, old paints, cement slurries and other contaminations by grinding, shot-blasting or milling. <b>Attention!</b> On very hard and dense surfaces (well visible on the greasy-shiny surface) you need to pay attention to a sufficient surface pretreatment, suitable methods are: cross-wise shot-blasting or intense abrasion with a sander with diamond blade (sand paper is unsuitable). Non-sanded or badly sanded surfaces prevent the primer's penetration. If old coatings are to be revised, they should be grinded beforehand or an alkaline basic cleaning with disc machine and cleaning or grinding pad should be executed. See catalogue group 1 General requirements to subsurface.
<b>Processing conditions:</b>	→ → → → →	<b>Air and substrate temperature:</b> minimum 10°C, max. 25°C Best results are being achieved between 15°C – 25°C! <b>Relative humidity:</b> max. 80%, do not process on dew point conditions. Humidity impact during curing may result in veil formation! See catalogue group 1: ambience conditions
<b>Mixing of EP-Easy Floor:</b>	→ → → →	Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min. In case of addition of fillers, this can be done now with the agitator running. <b>Attention!</b> A manual mixing of components A and B is not possible as this would not result in sufficient curing. Generally it is recommended to immediately disperse the mixed material on the surface as it stays longer processible this way.
<b>Processing as primer:</b>	→ → →	Disperse with paint roller or rubber squeegee and re-roll after ~ 20 min. without additional material. This ensures a complete impregnation of the substrate which often replaces an additional levelling compound of the substrate. <b>Furthermore processing time is considerably prolonged.</b> On very dense substrates, we recommend adding 5 % max of EP-thinner.
<b>Processing as sealing:</b>	→ → → → →	On the first painting of dense concrete and screed floors, you can add up to 5 % max EP-thinner; the second paint should then be executed undiluted for achieving a good opacity. Seamless rolling is necessary for achieving an even grain. Irregular application results in streaking. Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction. Processing with a rubber squeegee ensures a complete impregnation of the substrate which often replaces an additional levelling compound of the substrate. <b>Furthermore processing time is considerably prolonged.</b>

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**2 K PLASTISTONE® EP-Easy Floor rapid solvent-free, coloured**

<b>Processing as self-levelling coating:</b>	→	Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min. Discharge the mix onto the surface and disperse with a notched trowel and well deaerate cross-wise with a spiked roller.
	→	Only process coatings with harmonised toothing. Only then you will get correspondingly good surface results. Basically processing without sharp teeth (even trowel) is not possible.
	→	Surface division needs to be effected in that kind of way that coating laps on the surface are 15 minutes old maximum.
	→	Immediately after application, well deaerate the coating with a spiked roller. Make sure you are using the roller in reverse direction to the material application.

**OS 8 system structure as per protection and repair guidelines (DAfStb)**

<b>Structure:</b>	<b>As protective measure 1.5 mm</b>	<b>As repair measure 2.5 mm</b>
<b>Subsurface preparation:</b>	Shot-blasting or milling	Shot-blasting or milling
<b><u>1<sup>st</sup> layer:</u></b> 2K EP-primer (construction resin) A+B	0.50 kg/m <sup>2</sup>	0.50 kg/m <sup>2</sup>
Application method:	Apply with rubber squeegee and re-roll with paint roller.	
Quartz sand broadcasting of first layer	0.50 kg size 0.3-0.8mm	0.50 kg size 0.3-0.8mm
Application method:	Slightly broadcast the fresh first layer, not to excess.	
Optional position:	According to substrate and/or customer demand, a leveling compound needs to be applied on parts of or on the whole surface. Consumption rates on page 6	
<b><u>2<sup>nd</sup> layer:</u></b> 2K EP-Easy Floor A+B	0.50 kg/m <sup>2</sup>	0.80 kg/m <sup>2</sup>
Application method:	Apply with rubber squeegee and re-roll with paint roller.	Apply with rubber squeegee or trowel toothing no.10 and re-roll with paint roller.
Quartz sand broadcasting to excess of fresh second layer	3.0 kg size 0.3-0.8mm	3.0 kg size 0.7-1.2mm
Application method:	Die Broadcast the fresh second layer to excess. After curing, sweep away the excess sand and abrade with a steel blade. Then vacuum the surface with an industrial vacuum cleaner.	
<b><u>3<sup>rd</sup> layer:</u></b> 2K EP-Easy Floor A+B	0.50 kg/m <sup>2</sup>	0.65 kg/m <sup>2</sup>
Application method:	Equally and saturatedly apply the material with the paint roller according to consumption rates. Access the rolled surface by using spiked shoes and roll another time crosswise with a large surface paint roller without additional material.	

Technical data sheet date 01.10.2010

**2 K PLASTISTONE® EP-Easy Floor rapid solvent-free, coloured**

The following technical values have been achieved with EP-Easy Floor rapid comp.A+B.  
 Mechanical values change when filler materials are added. Refer to the values in group 3 of EP-self-levelling coatings 1-1.5mm/1.5-2mm/2.5-3mm.

Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate.

<b>Product data:</b>	<b>Component A:</b>	<b>Component B:</b>
Viscosity at 23 °C:	~ 4900 mPas.	~ 200 mPas.
Solids content:	~ 100 %	
Mix ratio PBW:	100 PBW	23.5 PBW
Mix ratio PBV:	66 PBV	23.5 PBV
Mixing time:	2 – 4 min.	
Pot life at 20°C:	~ 10 to 20 min. / 300 g preparation as per filling Attention! Larger preparations or higher temperatures shorten pot life (processing time)	
Curing time at 20°C:	Can be overlain after ~ 4 to 6 h, slightly chargeable after ~ 8h, trafficable after ~ 12 to 16 h, fully chemically and mechanically chargeable after 7 days. Attention! Curing times are strongly influenced by subsurface and surrounding temperature. After a curing time (at 20°C) of 48 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)	
Shelf life:	~ 6 months at 15°C to 25°C storage temperature, afterwards agitating the fillers of comp. A may be hindered.	
Colour:	According to colour chart	
Cleaner:	EP-thinner (if no curing has taken place)	
<b>Mechanical values:</b>		
Test in system structure as per repair guidelines OS 8 System structure described on page 4:	<b>Test report no. P 6257 of Kiwa Polymer Institute Flörsheim (Mechanical values of OS 8 coating as per test report)</b>	
<b>Further mechanical properties:</b>	<b>Test report no. P 3835-43a of Polymer Institute Flörsheim</b>	
<b>The indicated values have been achieved during testing without additional material filling!</b>		
Shore D hardness DIN 53505:	~ 82 Shore D	
Adhesive tensile strength DIN EN 1542:	~ 4.4 N/mm <sup>2</sup> 100% crack in concrete	
Abrasion resistance DIN EN ISO 5470-1:	(Taber) ~ 46 mg/1000 U	
Bending tensile strength DIN EN ISO 178:	~ 63.9 N/mm <sup>2</sup>	
Compressive strength DIN EN ISO 604:	Compression stress, 9.7 % strain ~ 69.7 N/mm <sup>2</sup>	
Impact resistance DIN EN ISO 6272	≤ 16 Nm	

Technical data sheet date 01.10.2010

**2 K PLASTISTONE® EP-Easy Floor rapid solvent-free, coloured**
**Suggested formulations and consumption for primers/sealings/spattling compound:**

	Primer ~ 0.35 mm	Sealing ~ 0.50 mm	Sealing ~ 1.00 mm	Levelling comp 1 mm layer	EP-mortar 10 mm layer
Process steps, as per substrate:	1 x	2 x	2 x	1 x	1 x
Application tools:	Rubber squeegee+ paint roller	paint roller	Toothing no. 10+ paint roller	trowel	trowel
Material requir. per m <sup>2</sup> : Easy Floor A+B	0.3 – 0.5 kg	2x 0.25-0.35 kg	2x 0.75–0.85 kg	1.00 kg	2.00 kg
Material require. per m <sup>2</sup> : additives	---	---	---	*( 80 % ) 0.80 kg	** 20.00 kg
Material require. per m <sup>2</sup> : Easy Floor A+B with additives	---	---	---	1.80 kg	22.00 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.41 kg / l	1.80 kg / l	2.20 kg / l

**Suggested formulations and consumption for self-levelling coatings:**

Coatings:	1 mm layer	1.5 mm layer	1.5 mm layer	2 mm layer	2.5 mm layer	3 mm layer
Process steps, as per substrate:	1 x	1 x	1 x	1 x	1 x	1 x
Application tools trowel toothing no:	no. 20	no. 23	no. 23	no. 25	no. 25	no. 78
Material requir. per m <sup>2</sup> : Easy Floor A+B	1.41 kg	2.10 kg	1.90 kg	2.20 kg	2.50 kg	3.00 kg
Material requir. per m <sup>2</sup> : additives	---	---	*( 25 % ) 0.47 kg	*( 50 % ) 1.10 kg	*( 80 % ) 2.00 kg	*( 80 % ) 2.40 kg
Material requir. per m <sup>2</sup> : Easy Floor A+B with additives	---	---	2.37 kg	3.30 kg	4.50 kg	5.40 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.58 kg / l	1.65 kg / l	1.80 kg / l	1.80 kg / l

**Additives:**

\* Filler for Easy Floor

\*\* Mortar filler mix

Technical data sheet date 01.10.2010

# 2 K PLASTISTONE® EP- Easy Elastic

Easy Line: coloured and filled ex factory  
 2 comp. elastified universal coating based on epoxy resins

## Application areas and properties:

- Due to its good UV-resistance well suitable for exterior zones like balconies, (outside surfaces only with chips on the entire surface) terraces, parking decks etc., its elastic properties are also an advantage in case of an increased danger of cracking.
- As coloured sealing or as self-levelling top coating in interior zones.
- For all surfaces with high visual demands in interior sections (like gloss level, surface optics, yellowing sensitivity etc.).
- To be applied on substrates like tarmac, concrete + screed for production halls, storage rooms, basement garages, etc.
- According to layer thickness and additional filling with quartz sand or quartz flour, appropriate for light, medium and heavy loads.
- Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.
- For substrates with maximum residual moisture of 3% or in combination with EP-barrier coat as primer up to maximum residual moisture of 5%.
- Not suitable for magnesite screeds as EP-Easy Elastic is vapour-proof to the largest extend.
- As standard coloured construction resin for primers/primer coats, for casting cracks and with addition of fillers also appropriate as mortar for closing holes.
- Can be used as flow and shrinkage hole filling (fine spatula).

<b>Available bundle sizes 2 K PLASTISTONE® EP-Easy Elastic solvent-free, coloured</b>		
<b>Art.-no:</b>	<b>Content:</b>	<b>Bundle composition:</b>
062001+RAL Nr.-Y01	<b>6.25 kg</b>	<b>Comp.A:</b> 5.05 kg; <b>Comp.B:</b> 1.20 kg <b>in 2 K bundle</b>
062001+RAL Nr.-Y02	<b>15.00 kg</b>	<b>Comp.A:</b> 12.14 kg; <b>Comp.B:</b> 2.86 kg <b>in 2 K bundle</b>
062001+RAL Nr.-Y03	<b>30.00 kg</b>	<b>Comp.A:</b> 24.28 kg; <b>Comp.B:</b> 5.72 kg

Technical data sheet date 01.10.2010

## 2 K PLASTISTONE® EP-Easy Elastic solvent-free, coloured

<b>Properties:</b>	<ul style="list-style-type: none"> <li>→ Due to its good penetrating power on mineral substrates, the surfaces of concrete and screed floors are strain-hardened and thus sanding and dust formation are avoided.</li> <li>→ Good elasticity and good UV-resistance, (outside surfaces only with chips on the entire surface)</li> <li>→ Solvent-free and thus low odour nuisance.</li> <li>→ Self-levelling from a layer thickness of 1.0 mm</li> <li>→ <b>The standard curing version is recommended for temperatures &gt; 15°C.</b></li> <li>→ Available in 26 different standard colour shades.</li> <li>→ For all surfaces with high visual demands in interior sections (like gloss level, surface optics, yellowing sensitivity etc.)</li> <li>→ By full-surface dispersal with colour chips and subsequent double colourless coating, terrazzo-like surfaces can be achieved that excel in a high scratch resistance and sure footedness .</li> <li>→ In visual areas, like entrance halls, staircases, exposition halls, offices, where increased scratch resistance is required, we recommend to disperse a minimum of 100g/m<sup>2</sup> colour chips onto the fresh self-levelling coating as additional protection. After curing, apply a colourless PU-sealing in one or two process steps (from 200g/m<sup>2</sup> colour chips, two process steps become necessary.</li> <li>→ As colourless, glossy sealing we recommend the EP-sealing water-emulsified for thin layer types (with ~ 0.10-0.12 kg/m<sup>2</sup>) or EP-colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> <li>→ If a higher UV and scratch resistance is required, especially for visually demanding surfaces, we recommend the silk-mat 1 component or 2 components PU-sealing (with ~ 0.10-0.12 kg/m<sup>2</sup>).</li> <li>→ In combination with anti-slip grit and a colourless sealing, you can achieve non-skid surfaces.</li> <li>→ Furthermore we recommend for visually appealing surfaces that shall not be dispersed with colour chips on the surface, thus stay plain-coloured, a minimum layer application of 2.5 kg/m<sup>2</sup> (~ 2mm), so that small impurities (mostly inevitable in practice) in thin coatings do not rest in the surface as unaesthetic inclusions. Additionally a colourless and silk-mat sealing as conclusion helps protecting the surface from scratches.</li> <li>→ Please mind the general advice in catalogue group 1!</li> </ul>
<b>Possible product combinations:</b>	<p><b><u>EP-Easy Elastic can be integrated in superstructures with the following products:</u></b></p> <p><b>Primer:</b></p> <ul style="list-style-type: none"> <li>→ 2 K EP-primer slow or rapid or 2 K EP-barrier coat</li> </ul> <p><b>Fine spatula or mortar:</b></p> <ul style="list-style-type: none"> <li>→ 2 K EP-fine spatula slow or rapid and 2 K EP-mortar slow and rapid</li> </ul> <p><b>Additional colourless satin-gloss / mat sealing:</b></p> <ul style="list-style-type: none"> <li>→ 1 K PU-sealing LH satin-gloss or 2 K PU-sealing WE mat</li> </ul> <p><b>Additional colourless glossy sealing:</b></p> <ul style="list-style-type: none"> <li>→ EP-sealing WE for thin layer types (~ 0.10-0.12 kg/m<sup>2</sup>) or EP- colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> </ul>
<b>Safety data sheets:</b>	<ul style="list-style-type: none"> <li>→ On our homepage, domain Shop Articles</li> </ul>
<b>Resistance:</b>	<ul style="list-style-type: none"> <li>→ See catalogue group 1 Chemical resistance of coating surfaces</li> </ul>
<b>GISCODE:</b>	<ul style="list-style-type: none"> <li>→ RE 1 (epoxy resin products, solvent-free)</li> </ul>
<b>CE Norm:</b>	<ul style="list-style-type: none"> <li>→ As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,7-IR20</li> </ul>

Technical data sheet date 01.10.2010

**2 K PLASTISTONE® EP-Easy Elastic solvent-free, coloured**

<b>Substrate quality:</b>	→	See catalogue group 1: general advice
<b>Substrate preparation:</b>	→	See catalogue group 1 General requirements to subsurface
<b>Processing conditions:</b>	→ → → → →	<b>Air and substrate temperature:</b> minimum 10°C, max. 35°C Best results are being achieved between 15°C – 25°C! <b>Relative humidity:</b> max. 80%, do not process on dew point conditions. Humidity impact during curing may result in veil formation! See catalogue group 1: ambience conditions
<b>Mixing of EP-Easy Elastic</b>	→ → → →	Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min. In case of addition of fillers, this can be done now with the agitator running. Attention! A manual mixing of components A and B is not possible as this would not result in sufficient curing. Generally it is recommended to immediately disperse the mixed material on the surface as it stays longer processible this way
<b>Processing as primer:</b>	→ →	Disperse with paint roller or rubber squeegee and re-roll after ~ 20 min. without additional material. This ensures a complete impregnation of the substrate which often replaces an additional levelling compound of the substrate. On very dense substrates, we recommend adding 5 % max of EP-thinner.
<b>Processing as sealing:</b>	→ → →	On the first painting of dense concrete and screed floors, you can add up to 5 % max EP-thinner; the second paint should then be executed undiluted for achieving a good opacity. Seamless rolling is necessary for achieving an even grain. Irregular application results in streaking. Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction.
<b>Processing as coating:</b>	→	Discharge the mixture onto the surface, disperse with a dented trowel and deaerate cross-wise with a spiked roller.
<b>Product data:</b>		<b>Component A:</b> <b>Component B:</b>
Viscosity at 20 °C:		~ 4900 mPas                      ~ 120 mPas
Solids content:		100 %
Mix ratio PBW A/B:	100 PBW	23.5 PBW
Mix ratio PBV A/B:	66 PBV	23.5 PBV
Pot life at 20°C:	~ 60 to 90 min. / 300 g preparation as per filling Attention! Larger preparations or higher temperatures shorten pot life (processing time)	
Curing time at 20°C:	Can be overlain after ~ 16 h, slightly chargeable after ~ 24h, trafficable after ~ 48 h, fully chemically and mechanically chargeable after 7 days. Attention! Curing times are strongly influenced by subsurface and surrounding temperature. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)	
Shelf life:	~ 6 months at 15°C to 25°C storage temperature, afterwards agitating the fillers of comp. A may be hindered.	
Colour:	According to colour chart	
Cleaner:	EP-thinner (if no curing has taken place)	



Technical data sheet date 01.10.2010

## 2 K PLASTISTONE® EP-Easy Elastic solvent-free, coloured

The following technical values have been achieved with EP-Easy Elastic comp.A+B.  
 Mechanical values change when filler materials are added. Refer to the values in group 4 of EP-self-levelling coatings 1-1.5mm/1.5-2mm/2.5-3mm.  
 Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate

### Suggested formulations and consumption for primers/sealings/spatting compound:

	Primer ~ 0.35 mm	Sealing ~ 0.70 mm	Sealing ~ 1.00 mm	Levelling comp 1 mm layer	EP-mortar 10 mm layer
Process steps, as per substrate:	1 x	2 x	2 x	1 x	1 x
Application tools:	Rubber squeegee+ paint roller	paint roller	Toothing no. 10+ paint roller	trowel	trowel
Material requir. per m <sup>2</sup> : Easy Floor A+B	0.3 - 0,5 kg	2x 0.25-0.35 kg	2x 0.75-0.85 kg	1.00 kg	2.00 kg
Material requir. per m <sup>2</sup> : additives	---	---	---	*( 80 % ) 0.80 kg	** 20.00 kg
Material requir. per m <sup>2</sup> : Easy Floor A+B with additives	---	---	---	1.80 kg	22.00 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.41 kg / l	1.80 kg / l	2.20 kg / l

### Suggested formulations and consumption for self-levelling coatings:

Coatings:	1 mm layer	1.5 mm layer	1.5 mm layer	2 mm layer	2.5 mm layer	3 mm layer
Process steps, as per substrate:	1 x	1 x	1 x	1 x	1 x	1 x
Application tools trowel toothing no:	no. 20	no. 23	no. 23	no. 25	no. 25	no. 78
Material requir. per m <sup>2</sup> : Easy Floor A+B	1.41 kg	2.10 kg	1.90 kg	2.20 kg	2.50 kg	3.00 kg
Material requir. per m <sup>2</sup> : additives	---	---	*( 25 % ) 0.47 kg	*( 50 % ) 1.10 kg	*( 80 % ) 2.00 kg	*( 80 % ) 2.40 kg
Material requir. per m <sup>2</sup> : Easy Floor A+B with additives	---	---	2.37 kg	3.30 kg	4.50 kg	5.40 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.58 kg / l	1.65 kg / l	1.80 kg / l	1.80 kg / l

**Additives:** \* Filler for Easy Floor /\*\* Mortar filler mix

### Mechanical values:

**Mechanical properties:** **Test report no. P 3835-51 of Polymer Institute Flörsheim**

**Mechanical values depend on type and quantity of additives.**

**The indicated values have been reached during testing without additional material filling!**

Shore D hardness	DIN 53505:	~ 77 Shore D
Adhesive tensile strength	DIN EN 1542:	~ 3.7 N/mm <sup>2</sup> 100% crack in concrete
Abrasion resistance	DIN EN ISO 5470-1:	(Taber) ~ 13 mg/1000 U

Bending tensile strength	DIN EN ISO178:	~ 58.7 N/mm <sup>2</sup>
Compression strength	DIN EN ISO 604:	Compression stress, 9.6% strain ~ 59.6 N/mm <sup>2</sup>
Tensile strength	DIN EN ISO 527	~ 13.5 N/mm <sup>2</sup> - > 1.7 %
Crack bridging	DIN EN 1062-7	≤ 0.36 mm
Impact resistance	DIN EN ISO 6272	≤ 20 Nm

Technical data sheet date 01.10.2010

# 2 K EP-Easy Elastic rapid

**Easy Line: coloured and filled ex factory**  
**2 comp. elastified universal coating based on epoxy resins, fast curing**

## Application areas and properties:

- Due to its good UV-resistance well suitable for exterior zones like balconies, (outside surfaces only with chips on the entire surface) terraces, parking decks etc., its elastic properties are also an advantage in case of an increased danger of cracking.
- As coloured sealing or as self-levelling top coating in interior zones.
- For all surfaces with high visual demands in interior sections (like gloss level, surface optics, yellowing sensitivity etc.).
- To be applied on substrates like tarmac, concrete + screed for production halls, storage rooms, basement garages, etc.
- According to layer thickness and additional filling with quartz sand or quartz flour, appropriate for light, medium and heavy loads.
- Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.
- For substrates with maximum residual moisture of 3% or in combination with EP-barrier coat as primer up to maximum residual moisture of 5%.
- Not suitable for magnesite screeds as EP-Easy Elastic is vapour-proof to the largest extend.
- As standard coloured construction resin for primers/primer coats, for casting cracks and with addition of fillers also appropriate as mortar for closing holes.
- Can be used as flow and shrinkage hole filling (fine spatula).

### Available bundle sizes 2 K PLASTISTONE® EP-Easy Elastic rapid solvent-free, coloured

Art.-no:	Content:	Bundle composition:
062002+RAL Nr.-Y01	<b>6.25 kg</b>	Comp.A: 5.05 kg; Comp.B: 1.20 kg <b>in 2 K bundle</b>
062002+RAL Nr.-Y02	<b>15.00 kg</b>	Comp.A: 12.14 kg; Comp.B: 2.86 kg <b>in 2 K bundle</b>
062002+RAL Nr.-Y03	<b>30.00 kg</b>	Comp.A: 24.28 kg; Comp.B: 5.72 kg

Technical data sheet date 01.10.2010

## 2 K PLASTISTONE® EP-Easy Elastic rapid, coloured

<b>Properties:</b>	<ul style="list-style-type: none"> <li>→ Due to its good penetrating power on mineral substrates, the surfaces of concrete and screed floors are strain-hardened and thus sanding and dust formation are avoided.</li> <li>→ Good elasticity and good UV-resistance, (outside surfaces only with chips on the entire surface)</li> <li>→ Solvent-free and thus low odour nuisance.</li> <li>→ Self-levelling from a layer thickness of 1.0 mm</li> <li>→ <b>The fast curing version is recommended for temperatures &lt; 25°C.</b></li> <li>→ Available in 26 different standard colour shades.</li> <li>→ For all surfaces with high visual demands in interior sections (like gloss level, surface optics, yellowing sensitivity etc.)</li> <li>→ By full-surface dispersal with colour chips and subsequent double colourless coating, terrazzo-like surfaces can be achieved that excel in a high scratch resistance and sure footedness.</li> <li>→ In visual areas, like entrance halls, staircases, exposition halls, offices, where increased scratch resistance is required, we recommend to disperse a minimum of 100g/m<sup>2</sup> colour chips onto the fresh self-levelling coating as additional protection. After curing, apply a colourless PU-sealing in one or two process steps (from 200g/m<sup>2</sup> colour chips, two process steps become necessary.</li> <li>→ As colourless, glossy sealing we recommend the EP-sealing water-emulsified for thin layer types (with ~ 0.10-0.12 kg/m<sup>2</sup>) or EP-colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> <li>→ If a higher UV and scratch resistance is required, especially for visually demanding surfaces, we recommend the silk-mat 1 component or 2 components PU-sealing (with ~ 0.10-0.12 kg/m<sup>2</sup>. In combination with anti-slip grit and a colourless sealing, you can achieve non-skid surfaces.</li> <li>→ Furthermore we recommend for visually appealing surfaces that shall not be dispersed with colour chips on the surface, thus stay plain-coloured, a minimum layer application of 2.5 kg/m<sup>2</sup> (~ 2mm), so that small impurities (mostly inevitable in practice) in thin coatings do not rest in the surface as unaesthetic inclusions. Additionally a colourless and silk-mat sealing as conclusion helps protecting the surface from scratches.</li> <li>→ Please mind the general advice in catalogue group 1!</li> </ul>
<b>Possible product combinations:</b>	<p><b><u>EP-Easy Elastic rapid can be integrated in superstructures with the following products:</u></b></p> <ul style="list-style-type: none"> <li>→ <b>Primer:</b> 2 K EP-primer slow or rapid or 2 K EP-barrier coat</li> <li>→ <b>Fine spatula or mortar:</b> 2 K EP-fine spatula slow or rapid and 2 K EP-mortar slow and rapid</li> <li>→ <b>Additional colourless satin-gloss / mat sealing:</b> 1 K PU-sealing LH satin-gloss or 2 K PU-sealing WE mat</li> <li>→ <b>Additional colourless glossy sealing:</b> EP- sealing WE for thin layer types (~ 0.10-0.12 kg/m<sup>2</sup>) or EP- colorit quartz sand binding agent as thick layer sealing (with ~ 0.12-0.15 kg/m<sup>2</sup>).</li> </ul>
<b>Safety data sheets:</b>	<ul style="list-style-type: none"> <li>→ On our homepage, domain Shop Articles</li> </ul>
<b>Resistance:</b>	<ul style="list-style-type: none"> <li>→ See catalogue group 1 Chemical resistance of coating surfaces</li> </ul>
<b>GISCODE:</b>	<ul style="list-style-type: none"> <li>→ RE 1 (epoxy resin products, solvent-free)</li> </ul>
<b>CE Norm:</b>	<ul style="list-style-type: none"> <li>→ As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,8-IR20</li> </ul>

Technical data sheet date 01.10.2010

## 2 K PLASTISTONE® EP-Easy Elastic rapid, coloured

<b>Substrate quality:</b>	→	See catalogue group 1: general advice
<b>Substrate preparation:</b>	→	See catalogue group 1 General requirements to subsurface
<b>Processing conditions:</b>	→	<b>Air and substrate temperature:</b> minimum 10°C, max. 35°C
	→	Best results are being achieved between 15°C – 25°C!
	→	<b>Relative humidity:</b> max. 80%, do not process on dew point conditions. Humidity impact during curing may result in veil formation!
	→	Attention! Due to shortened pot life, processing with a paint roller out of the mixing pot is not possible! We recommend to immediately discharge the mixed material onto the surface and to disperse with a rubber squeegee/paint roller!
	→	See catalogue group 1: ambience conditions.
<b>Mixing of EP-Easy Elastic</b>	→	Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min.
	→	In case of addition of fillers, this can be done now with the agitator running.
	→	Attention! A manual mixing of components A and B is not possible as this would not result in sufficient curing.
	→	Generally it is recommended to immediately disperse the mixed material on the surface as it stays longer processible this way.
<b>Processing as primer:</b>	→	Disperse with paint roller or rubber squeegee and re-roll after ~ 20 min. without additional material. This ensures a complete impregnation of the substrate which often replaces an additional levelling compound of the substrate. On very dense substrates, we recommend adding 5 % max of EP-thinner.
<b>Processing as sealing:</b>	→	On the first painting of dense concrete and screed floors, you can add up to 5 % max EP-thinner; the second paint should then be executed undiluted for achieving a good opacity.
	→	Seamless rolling is necessary for achieving an even grain. Irregular application results in streaking.
	→	Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction.
<b>Processing as coating:</b>	→	Discharge the mixture onto the surface, disperse with a dented trowel and deaerate cross-wise with a spiked roller.
<b>Product data:</b>		<b>Component A:</b>
Viscosity at 20 °C:		~ 4900 mPas
		<b>Component B:</b>
Solids content:		100 %
Mix ratio PBW:		100 PBW
		23.5 PBW
Mix ratio PBV:		66 PBV
		23.5 PBV
Pot life at 20°C:		~ 10 to 20 min. / 300 g preparation as per filling Attention! Larger preparations or higher temperatures shorten pot life (processing time).
Curing time at 20°C:		Can be overlain after ~ 10 h, slightly chargeable after ~ 18h, trafficable after ~ 24 h, fully chemically and mechanically chargeable after 7 days. Attention! Curing times are strongly influenced by subsurface and surrounding temperature. After a curing time (at 20°C) of 48 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)
Shelf life:		~ 6 months at 15°C to 25°C storage temperature, afterwards agitating the fillers of comp. A may be hindered.
Colour:		According to colour chart
Cleaner:		EP-thinner (if no curing has taken place)

Technical data sheet date 01.10.2010

## 2 K PLASTISTONE® EP-Easy Elastic rapid, coloured

The following technical values have been achieved with EP-Easy Elastic rapid comp.A+B.  
 Mechanical values change when filler materials are added. Refer to the values in group 4 of EP-self-levelling coatings 1-1.5mm/1.5-2mm/2.5-3mm.

Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate.

### Suggested formulations and consumption for primers/sealings/spattling compound:

	Primer ~ 0.35 mm	Sealing ~ 0.70 mm	Sealing ~ 1.00 mm	Levelling comp 1 mm layer	EP-mortar 10 mm layer
Process steps, as per substrate:	1 x	2 x	2 x	1 x	1 x
Application tools:	Rubber squeegee+ paint roller	paint roller	Toothing no. 10+ paint roller	trowel	trowel
Material requir m <sup>2</sup> : Easy Floor A+B	0.3 – 0.5 kg	2x 0.25-0.35 kg	2x 0.75–0.85 kg	1.00 kg	2.00 kg
Material requir m <sup>2</sup> : additives	---	---	---	*( 80 % ) 0.80 kg	** 20.00 kg
Material requir m <sup>2</sup> : Easy Floor A+B with additives	---	---	---	1.80 kg	22.00 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.41 kg / l	1.80 kg / l	2.20 kg / l

### Suggested formulations and consumption for self-levelling coatings:

Coatings:	1 mm layer	1,5 mm layer	1,5 mm layer	2 mm layer	2,5 mm layer	3 mm layer
Process steps, as per substrate:	1 x	1 x	1 x	1 x	1 x	1 x
Application tools trowel toothing no:	no. 20	no. 23	no. 23	no. 25	no. 25	no. 78
Material requir m <sup>2</sup> : Easy Floor A+B	1.41 kg	2.10 kg	1.90 kg	2.20 kg	2.50 kg	3.00 kg
Material requir m <sup>2</sup> : additives	---	---	*( 25 % ) 0.47 kg	*( 50 % ) 1.10 kg	*( 80 % ) 2.00 kg	*( 80 % ) 2.40 kg
Material requir m <sup>2</sup> : Easy Floor A+B with additives	---	---	2.37 kg	3.30 kg	4.50 kg	5.40 kg
Density in mixture:	1.41 kg / l	1.41 kg / l	1.58 kg / l	1.65 kg / l	1.80 kg / l	1.80 kg / l

**Additives:** \* Filler for Easy Floor /\*\* Mortar filler mix

### Mechanical values:

**Mechanical properties:** **Test report no. P 3835-51 of Polymer Institute Flörsheim**

**Mechanical values depend on type and quantity of additives.**

**The indicated values have been reached during testing without additional material filling!**

Shore D hardness	DIN 53505:	~ 70 Shore D
Adhesive tensile strength	DIN EN 1542:	~ 3.8 N/mm <sup>2</sup> 100% crack in concrete
Abrasion resistance	DIN EN ISO 5470-1:	(Taber) ~ 13 mg/1000 U
Bending tensile strength	DIN EN ISO 178:	~ 16.5 N/mm <sup>2</sup>
Compression strength	DIN EN ISO 604:	Compression stress, 10% strain ~ 18.1 N/mm <sup>2</sup>
Tensile strength	DIN EN ISO 527	~ 14.5 N/mm <sup>2</sup> - > 4.3 %
Crack bridging	DIN EN 1062-7	< 0,70 mm
Impact resistance	DIN EN ISO 6272	≤ 20 Nm

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# 2 K EP-DF Easy Floor WE

**Easy Line: coloured and filled ex factory**  
**2 comp. universal coating based on epoxy resins, capable of vapour diffusion**

## Application areas and properties:

- As coloured sealing or as self-levelling top coating in interior areas.
- **Certified coating system according to repair guidelines OS 8 (DAfStb)**
- On substrates like concrete + screed, (tiles after appropriate preparation) for production halls, storage rooms, basement garages, parking decks, department stores, hospitals etc.  
(exterior areas under certain conditions)
- For substrates that cannot be coated with conventional systems due to household or oppressive humidity.
- On magnesite or anhydrite floors that need to be coated breathable  
And concrete and screed substrates with a residual moisture of > 3 %
- Very good **vapour diffusion properties** thus appropriate for substrates with high residual moisture caused by too short exposure times of mineral substrates or missing barrier of the screed towards ground soil.
- According to layer thickness and additional filling with quartz sand or quartz flour, appropriate for light, medium and heavy loads.
- Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.
- Can be used as flow and shrinkage hole filling (fine spatula).

<b>Available bundle sizes 2 K PLASTISTONE® EP-DF Easy Floor WE, coloured</b>		
<b>Art.-no:</b>	<b>Content:</b>	<b>Bundle composition:</b>
063001+RAL Nr.-Y04	<b>6.10 kg</b>	<b>Comp.A:</b> 5.10 kg; <b>Comp.B:</b> 1.00 kg <b>in 2 K bundle</b>
063001+RAL Nr.-Y05	<b>14.64 kg</b>	<b>Comp.A:</b> 12.22 kg; <b>Comp.B:</b> 2.42 kg <b>in 2 K bundle</b>
063001+RAL Nr.-Y06	<b>29.28 kg</b>	<b>Comp.A:</b> 24.44 kg; <b>Comp.B:</b> 4.84 kg

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## 2 K PLASTISTONE® EP-DF Easy Floor WE, coloured

<b>Properties:</b>	<ul style="list-style-type: none"> <li>→ Very good <b>vapour diffusion properties</b> thus appropriate for substrates with high residual moisture caused by too short exposure times of mineral substrates or missing barrier of the screed towards ground soil.</li> <li>→ Certified coating system according to repair guidelines OS 8 (DAfStb)</li> <li>→ Can also be used in exterior areas, has a good UV-resistance but is not 100 % colour stable. Thus we recommend full-service broadcasting with chips with a double colourless 2K PU-sealing WE mat, colourless.</li> <li>→ Due to its good penetrating power on mineral substrates, the surfaces of concrete and screed floors are strain-hardened and thus sanding and dust formation are avoided. (As primer, 10 % water are added, as sealing, add 5% water)</li> <li>→ Before treating fresh concrete and screed floors, wait 10 days minimum. Then these floors can be directly coated with this system after having them prepared by shot-blasting.</li> <li>→ Available in 26 different standard colour shades</li> <li>→ Self-levelling from ~ 1.5 kg/m<sup>2</sup> thus ~1.0 mm layer thickness</li> <li>→ By full-surface dispersal with colour chips and subsequent double colourless coating, terrazzo-like surfaces can be achieved that excel in a high scratch resistance and sure footedness.</li> <li>→ In visual areas, like entrance halls, staircases, exposition halls, offices, where increased scratch resistance is required, we recommend to disperse a minimum of 100g/m<sup>2</sup> colour chips onto the fresh self-levelling coating as additional protection. After curing, apply a colourless PU-sealing in one or two process steps (from 200g/m<sup>2</sup> colour chips, two process steps become necessary.</li> <li>→ As colourless, glossy sealing we recommend the EP-sealing WE with ~ 0.10-0.12 kg/m<sup>2</sup>.</li> <li>→ If a higher UV and scratch resistance is required, especially for visually demanding surfaces, we recommend the 2 K PU-sealing mat, colourless with ~ 0.10-0.12 kg/m<sup>2</sup>.</li> <li>→ In combination with anti-slip grit and a colourless sealing, you can achieve non-skid surfaces.</li> <li>→ Furthermore we recommend for visually appealing surfaces that shall not be dispersed with colour chips on the surface, thus stay plain-coloured, a minimum layer application of 2.5 kg/m<sup>2</sup> (~ 2mm), so that small impurities (mostly inevitable in practice) in thin coatings do not rest in the surface as unaesthetic inclusions. Additionally a colourless and silk-mat sealing as conclusion helps protecting the surface from scratches.</li> <li>→ On an application as sealing (with paint roller), <b>ESPECIALLY</b> point out that the surface texture does not correspond to an even coating surface.</li> <li>→ Please mind the general advice in catalogue group 1!</li> </ul>
<b>Possible product combinations:</b>	<p><b><u>2K EP-DF Easy Floor can be integrated in superstructures with the following products:</u></b></p> <ul style="list-style-type: none"> <li>→ <b>Primer:</b> 2 K EP-DF binding agent + 20% water (as thin primer)</li> <li>→ <b>Fine spatula or mortar:</b> 2 K EP-DF fine spatula or 2 K EP-DF mortar. As alternative to EP-DF mortar, EP-mortar slow or rapid may be used. The EP-DF primer (binding agent) needs to be cured.</li> <li>→ <b>Additional colourless mat / silk-mat sealing:</b> 2 K PU-sealing WE mat or 1 K polymer dispersion silk-mat</li> <li>→ <b>Additional colourless glossy sealing:</b> 2 K PLASTISTONE® EP-sealing WE colourless or 1 K polymer dispersion, glossy</li> </ul>
<b>GISCODE:</b>	→ RE 1 (epoxy resin products, solvent-free)
<b>Safety data sheets:</b>	→ On our homepage, domain Shop Articles
<b>CE Norm:</b>	→ As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,7-IR8



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## 2 K PLASTISTONE® EP-DF Easy Floor WE, coloured

<b>Substrate quality:</b>	<ul style="list-style-type: none"> <li>→ Concrete: minimum (B 25) C20/25, screed: minimum (ZE 30) CT 30</li> <li>→ Magnesia screeds minimum (ME 30) MA 30</li> <li>→ Anhydrite screeds minimum (AE 30) CA 30</li> <li>→ All substrates should only be coated after a curing time of 10 days minimum.</li> <li>→ See catalogue group 1: general advice</li> </ul>
<b>Substrate preparation:</b>	<ul style="list-style-type: none"> <li>→ See catalogue group 1 General requirements to subsurface</li> <li>→ <b>Attention!</b> On very hard or dense surfaces (very well visible on the greasy-shiny surfaces) a sufficient surface pre-treatment needs to be assured. Appropriate methods are: cross-wise shot-blasting or intense grinding with a grinder with diamond blade (sanding paper is unsuitable). Ungrinded or badly grinded surfaces prevent the primer from penetrating.</li> <li>→ If old coatings need to be revised, you should grind beforehand or effect an alkaline cleaning with a disk machine with a cleaning or grinding pad.</li> <li>→ See catalogue group 1 General requirements to subsurface</li> </ul>
<b>Processing conditions:</b>	<ul style="list-style-type: none"> <li>→ <b>Air and substrate temperature:</b> minimum 10°C, max. 30°C</li> <li>→ Best results are being achieved between 15°C – 25°C!</li> <li>→ <b>Relative humidity:</b> max. 80%, do not process on dew point conditions.</li> <li>→ During processing and curing, mind that air moisture is increasing in closed rooms due to the evaporation of the water contents in EP-DF Easy Floor. Ensure sufficient ventilation. (Otherwise there is a risk of curing disturbances or staining.</li> <li>→ <b>Avoid draught!</b> Causes too early hardening of the surface which may lead to undesired surface disturbances. (blistering/bad levelling)</li> <li>→ See catalogue group 1: ambience conditions.</li> </ul>
<b>Mixing of EP-DF Easy Floor:</b>	<ul style="list-style-type: none"> <li>→ Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min.</li> <li>→ In case of addition of fillers, this can be done now with the agitator running.</li> <li>→ Attention! A manual mixing of components A and B is not possible as this would not result in sufficient curing.</li> <li>→ Generally it is recommended to immediately disperse the mixed material on the surface as it stays longer processible this way.</li> </ul>
<b>Processing as primer:</b>	<ul style="list-style-type: none"> <li>→ Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail, add 10% water and mix another minute. Disperse with paint roller or rubber squeegee and re-roll after ~ 20 min. without additional material.</li> </ul>
<b>Processing as sealer:</b>	<ul style="list-style-type: none"> <li>→ Completely discharge component B into component A and mix ~ 2 minutes.</li> <li>→ Change the material into a larger pail, add 5% water and mix another minute.</li> <li>→ Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction.</li> <li>→ Late re-working of the sealing results in a structure (orange peel skin) on the surface.</li> <li>→ By using spike shoes, re-working can be ameliorated, as one person steps into the fresh sealing with spike shoes and re-rolls the surface crosswise (in opposite direction to the work before).</li> <li>→ Seamless rolling is necessary for achieving an even grain. Irregular application results in streaking.</li> </ul>

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## 2 K PLASTISTONE® EP-DF Easy Floor WE, coloured

<b>Processing as self-levelling coating:</b>	→	Completely discharge component B into component A and mix ~ 2 minutes. Change the material into a larger pail and mix again ~ 1 min. Discharge the mix onto the surface and disperse with a toothed spatula, deaerate crosswise with a spiked roller.
	→	Only work coatings with harmonised toothings. Only then you will get correspondingly good surface results. Basically processing without pointed teeth (plain trowel) is not possible. Surface division needs to be effected in that kind of way that coating laps on the surface are 15 minutes old maximum.
	→	Immediately after application, well deaerate the coating with a spiked roller. Make sure you are using the roller in reverse direction to the material application.

### OS 8 system structure as per protection and repair guidelines (DAfStb)

Structure:	As protective measure 1.5 mm	As repair measure 2.5 mm
<b>Subsurface preparation:</b>	Shot-blasting or milling	Shot-blasting or milling
<b><u>1<sup>st</sup> layer:</u></b> EP-DF Easy Floor A+B	0.50 kg/m <sup>2</sup> with 10% water	0.50 kg/m <sup>2</sup> with 10% water
Application method:	Apply with rubber squeegee and re-roll with paint roller.	
Quartz sand broadcasting of first layer	0.50-1.0 kg size 0.3-0.8mm	0.50-1.0 kg size 0.3-0.8mm
Application method:	Slightly broadcast the fresh first layer, not to excess.	
Optional position:	According to substrate and/or customer demand, a leveling compound needs to be applied on parts of or on the whole surface. Consumption rates on page 6	
<b><u>2<sup>nd</sup> layer:</u></b> EP-DF Easy Floor A+B	0.50 kg/m <sup>2</sup> with 5% water	0.80 kg/m <sup>2</sup> with 5% water
Application method:	Apply with rubber squeegee and re-roll with paint roller.	Apply with rubber squeegee or toothing no. 10 and re-roll with paint roller.
Quartz sand broadcasting of 2 <sup>nd</sup> layer, to excess	3.0 kg size 0.3-0.8mm	3.0 kg size 0.7-1.2mm
Application method:	Broadcast the fresh second layer to excess. After curing, sweep away the excess sand and abrade with a steel blade. Then vacuum the surface with an industrial vacuum cleaner.	
<b><u>3<sup>rd</sup> layer:</u></b> EP-DF Easy Floor A+B	0.50 kg/m <sup>2</sup> with 5% water	0.65 kg/m <sup>2</sup> with 5% water
Application method:	Equally and saturatedly apply the material with the paint roller according to consumption rates. Access the rolled surface by using spiked shoes and roll another time crosswise with a large surface paint roller without additional material.	
Optional position: 4 <sup>th</sup> layer: 2K EP-DF Easy Floor A+B	As per customer demand and required grain, we recommend applying a second top sealing with ~ 0.25-0.30kg. (You can roll thinner this time)	

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## 2 K PLASTISTONE® EP-DF Easy Floor WE, coloured

The following technical values have been achieved with EP-DF Easy Floor comp.A+B.  
 Mechanical values change when filler materials are added. Refer to the values in group 5 of EP-DF -self-levelling coatings 1-1.5mm/1.5-2mm/2.5-3mm.

Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate.

Product data:	Component A:	Component B:
Viscosity at 23 °C:	~ 1400 mPas.	~ 1150 mPas.
Solids content:	~ 77 %	
Mix ratio PBW:	500 PBW	100 PBW
Mixing time:	2 – 4 min.	
Pot life at 20°C:	~ 60 min. / 300 g preparation as per filling.	
Curing time at 20°C:	Curing times are influenced by air moisture and temperature. - accessible after ~ 16 h, can be overlain after ~ 24 h, chargeable after ~ 48 h - fully mechanically chargeable after 3-5 days, fully chemically chargeable after ~7 days On high air moisture (> 70%) you must reckon a doubling of curing times. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible.	
Shelf life:	~ 6 months at 15°C to 25°C storage temperature, afterwards agitating the fillers may be hindered.	
Colour:	According to colour chart	
Cleaner:	Water (if no curing has taken place)	
<b>Mechanical values:</b>		
Test in system structure according to repair guidelines OS 8 System structure described on page 24:	<b>Test report no. P 5246 of Polymer Institute Flörsheim</b>	
<b>Further mechanical properties:</b>	<b>Test report no. P 3835-38 of Polymer Institute Flörsheim</b>	
Shore D hardness DIN 53505:	~ 85 Shore D	
Adhesive tensile strength DIN EN 1542:	~ 3.7 N/mm <sup>2</sup> 100% crack in concrete	
Abrasion resistance DIN EN ISO 5470-1:	(Taber) ~ 83 mg/1000 U	
Bending tensile strength DIN EN ISO 178:	~ 31.4 N/mm <sup>2</sup>	
Compression strength DIN EN ISO 604:	Compression stress, 10% strain ~ 37.5 N/mm <sup>2</sup>	
Impact resistance DIN EN ISO 6272	≤ 8 Nm	
<b>Water vapour permeability:</b>	<b>Test report no. P 5246 / P 4376 of Polymer Institute Flörsheim</b>	
On medium layer thickness:	1800 µ (1,8 mm)	
DIN EN ISO 12572	Water vapour diffusion resistance factor µ (H <sub>2</sub> O): Average value: 5000 µ	
DIN EN ISO 7783-2	Diffusion-equivalent air layer thickness s <sub>d</sub> (H <sub>2</sub> O): Average value: 9 m	
Water vapour transmission rate Evaluation as per DIN EN 1504-2	Class II	
<b>Fire behaviour:</b>	<b>Material testing laboratory (MPA), Stuttgart</b>	
As per DIN 4102 (D - Norm):	Test report no. 16-9012110-DF / fire class: DIN4102-B1	
As per DIN EN 501-1 (EU - Norm)	Classification report no.16-9012110-80 DF / fire class: B <sub>fl</sub> -s1	
<b>Resistance:</b>	→	See catalogue group 1 Chemical resistance of coating surfaces and chemical resistance under material tests on our homepage.
	→	See OS 8 test report under 5.1.8

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## 2 K PLASTISTONE® EP-DF Easy Floor WE, coloured

### Suggested formulations and consumption for primers/sealings/spatting compound:

	Primer ~ 0.35 mm	Sealing ~ 0.50 mm		Spatting comp. 1 mm layer	EP-mortar 10 mm layer
Process steps, as per substrate:	1 x	2 x		1 x	1 x
Application tools:	Rubber squeegee+ paint roller	paint roller		Trowel	Trowel
Material requir m <sup>2</sup> : Easy Floor A+B	0.3 – 0.5 kg with 10% water	2x0,25 -0,35 kg with 5% - 10% water		1.00 kg	2.00 kg
Material requir m <sup>2</sup> : additives	---	---		*( 50 % ) 0.50 kg	** 20.00 kg
Material requir m <sup>2</sup> : Easy Floor A+B with additives	---	---		1.50 kg	22.00 kg
Density in mixture:	1.37 kg / l	1.37 kg / l		1.65 kg / l	2.20 kg / l

### Suggested formulations and consumption for self-levelling coatings:

<b>Coatings:</b>	1 mm layer	1.5 mm layer	1.5 mm layer	2 mm layer	2.7 mm layer
Process steps, as per substrate:	1 x	1 x	1 x	1 x	1 x
Application tools trowel toothing no:	no. 20	no. 23	no. 23	no. 25	no. 78
Material requir m <sup>2</sup> : Easy Floor A+B	1.40 kg	2.10 kg	1.82 kg	2.20 kg	3.00 kg
Material requir m <sup>2</sup> : additives	---	---	*( 25 % ) 0.46 kg	*( 50 % ) 1.10 kg	*( 50 % ) 1.50 kg
Material requir m <sup>2</sup> : Easy Floor A+B with additives	---	---	2.28 kg	3.30 kg	4.50 kg
Density in mixture:	1.37 kg / l	1.37 kg / l	1.52 kg / l	1.65 kg / l	1.65 kg / l

**Additives:**

- \* Filler for Easy Floor
- \*\* Mortar filler mix

Technical data sheet date 01.10.2010

# 2 K PLASTISTONE®

## EP-Easy Seal WE

**Easy Line: coloured and filled ex factory**  
**2 comp. coating based on epoxy resins, capable of vapour diffusion**

### Application areas and properties:

- coloured thin layer sealing for interior areas (colour alteration when used in exterior areas).
- Application in production halls, storage rooms, basement garages, parking decks, department stores, hospitals etc.
- Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.
- For substrates that cannot be coated with conventional systems due to household or oppressive humidity. (residual moisture 5% max.)
- With a coating thickness of ~ 0.15kg – 0.20kg/m<sup>2</sup>, a slightly coarse, silk-mat surface will be generated
- On EP-coatings as coloured, slip resistant top sealing
- For substrates like concrete + cement screed
- On magnesite- or anhydrite floors that need a breathable coating
- very good **vapour diffusion properties**, thus suitable for substrates with high residual moisture, caused by too short exposure times of mineral substrates or missing barrier of the screed towards ground soil.

<b>Available bundle sizes 2 K PLASTISTONE® EP-Easy seal WE, coloured</b>		
<b>Art.-no:</b>	<b>Content:</b>	<b>Bundle composition:</b>
063501+RAL Nr.-Y07	<b>6.00 kg</b>	<b>Comp.A:</b> 4.80 kg; <b>Comp.B:</b> 1.20 kg <b>in 2 K bundle</b>
063501+RAL Nr.-Y08	<b>15.00 kg</b>	<b>Comp.A:</b> 12.00 kg; <b>Comp.B:</b> 3.00 kg <b>in 2 K bundle</b>
063501+RAL Nr.-Y09	<b>30.00 kg</b>	<b>Comp.A:</b> 24.00 kg; <b>Comp.B:</b> 6.00 kg

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## 2 K PLASTISTONE® EP-Easy Seal WE, coloured

<b>Properties:</b>	<ul style="list-style-type: none"> <li>→ 2K EP-Easy seal WE is a water-soluble dispersion based on 2 K-epoxy resins. It does not contain solvents (despite water), thus very little odour.</li> <li>→ The sealing's surface is satin-gloss and has a slight roughness</li> <li>→ Very good <b>vapour diffusion properties</b>, thus suitable for substrates with high residual moisture, caused by too short exposure times of mineral substrates or missing barrier of the screed towards ground soil.</li> <li>→ Can also be used in exterior areas, has a good UV-resistance but is not 100 % colour stable. Thus we recommend full-service broadcasting with chips with a colourless 2K PU-sealing WE.</li> <li>→ Due to its good penetrating power on mineral substrates, the surfaces of concrete and screed floors are strain-hardened and thus sanding and dust formation are avoided.</li> <li>→ Before treating fresh concrete and screed floors, wait 10 days minimum. Then these floors can be directly sealed with this system after having them prepared by shot-blasting.</li> <li>→ Available in 26 different standard colour shades</li> <li>→ In combination with anti-slip grit F 60 or F 36, you can achieve a non-skid surface.</li> <li>→ On an application as sealing (with paint roller), ESPECIALLY point out that the surface texture does not correspond to an even coating surface.</li> <li>→ Due to the thin application with sealing roller, there may appear structure and rolling marks as well as gloss level differences that are no justification for a complaint.</li> <li>→ EP-Easy seal WE must only be applied in thin layers in one work process with 0.30kg/m<sup>2</sup> max. If higher layers are required, EP-DF Easy Floor is to be used.</li> <li>→ Please mind the general advice in catalogue group 1!</li> </ul>
<b>Resistance:</b>	<ul style="list-style-type: none"> <li>→ See catalogue group 1 Chemical resistance of coating surfaces and chemical resistance under material tests on our homepage.</li> </ul>
<b>Safety data sheets:</b>	<ul style="list-style-type: none"> <li>→ On our homepage, domain Shop Articles</li> </ul>
<b>Possible product combinations:</b>	<p><b><u>2K EP-Easy Seal WE an be integrated in superstructures with the following products:</u></b></p> <ul style="list-style-type: none"> <li>→ <b>Primer:</b> 2 K EP-DF binding agent + 20% water (as thin primer)</li> <li>→ <b>Fine spatula or mortar:</b> 2 K EP-DF fine spatula or 2 K EP-DF mortar.</li> <li>→ <b>Additional colourless mat / silk-mat sealing:</b> 2 K PU-sealing WE mat or 1 K polymer dispersion silk-mat</li> <li>→ <b>Additional colourless glossy sealing:</b> 2 K PLASTISTONE® EP-sealing WE colourless or 1 K polymeredispersion, glossy</li> </ul>
<b>Substrate quality:</b>	<ul style="list-style-type: none"> <li>→ Concrete: minimum (B 25) C20/25, screed: minimum (ZE 30) CT 30</li> <li>→ Magnesia screeds minimum (ME 30) MA 30</li> <li>→ Anhydrite screeds minimum (AE 30) CA 30</li> <li>→ All substrates should only be coated after a curing time of 10 days minimum.</li> <li>→ Adhesive tensile strength of substrates: minimum 1.5 N/mm<sup>2</sup></li> <li>→ See catalogue group 1: general advice</li> </ul>

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## 2 K PLASTISTONE® EP- Easy Seal WE, coloured

<b>Substrate preparation:</b>	<ul style="list-style-type: none"> <li>→ The surface needs to be clean, surface-dry and sustainable. It must be freed from oils, grease, old paints, laitances or other impurities by grinding, shot-blasting or milling.</li> <li>→ <b>Attention!</b> On very hard or dense surfaces (very well visible on the greasy-shiny surfaces) a sufficient surface pre-treatment needs to be assured. Appropriate methods are: cross-wise shot-blasting or intense grinding with a grinder with diamond blade (sanding paper is unsuitable). Ungrinded or badly grinded surfaces prevent the primer from penetrating.</li> <li>→ Plain, unsanded coatings must be re-worked within 2-3 days. Otherwise a basic cleaning with cleaning pad is required.</li> <li>→ If old coatings need to be revised, you should grind beforehand or effect an alkaline cleaning with a disk machine with a cleaning or grinding pad.</li> <li>→ See catalogue group 1 General requirements to subsurface</li> </ul>
<b>Processing conditions:</b>	<ul style="list-style-type: none"> <li>→ <b>Air and substrate temperature:</b> minimum 10°C, max. 30°C</li> <li>→ Best results are being achieved between 15°C – 25°C!</li> <li>→ <b>Relative humidity:</b> max. 80%, do not process on dew point conditions.</li> <li>→ During processing and curing, mind that air moisture is increasing in closed rooms due to the evaporation of the water contents in EP-Easy Seal WE. Ensure sufficient ventilation. (Otherwise there is a risk of curing disturbances or staining.</li> <li>→ <b>Avoid draught!</b> Causes too early hardening of the surface which may lead to undesired surface disturbances. (blistering/bad levelling)</li> <li>→ See catalogue group 1: ambience conditions.</li> </ul>
<b>Mixing of EP-Easy Seal:</b>	<ul style="list-style-type: none"> <li>→ Completely discharge component B into component A and mix ~ 2 minutes.</li> <li>→ After a maturing time of ~ 15-20 min., change the material into another clean pail and add the required (see below) water in drinking water quality and mix another minute.</li> <li>→ Attention! A manual mixing of components A and B is not possible as this would not result in sufficient curing.</li> <li>→ <b>Water addition as primer:</b> On the first coat of dense substrates, you can add up to 10 % max. of water, on absorptive substrates maximum 5 % water.</li> <li>→ <b>Water addition as sealing (second or if required third coat):</b> With a material application of ~ 0.20kg/m<sup>2</sup>, you can achieve a good opacity with water addition of maximum 5 % water.</li> <li>→ With a higher material application of ~ 0.30kg/m<sup>2</sup>, e.g. on surfaces completely broadcast with sand, you can renounce on adding water.</li> </ul>
<b>Processing as sealing:</b>	<ul style="list-style-type: none"> <li>→ Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction.</li> <li>→ By using spike shoes, re-working can be ameliorated, as one person steps into the fresh sealing with spike shoes and re-rolls the surface crosswise (in opposite direction to the work before).</li> <li>→ Late re-working of the sealing results in a structure (orange peel skin) on the surface.</li> <li>→ Seamless rolling is necessary for achieving an even grain. Irregular application results in streaking.</li> </ul>

Technical data sheet date 01.10.2010

## 2 K PLASTISTONE® EP- Easy Seal WE, coloured

The following technical values have been achieved with EP-Easy Seal comp.A+B.  
 Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate.

<b>Product data:</b>	<b>Component A:</b>	<b>Component B:</b>
Viscosity at 23 °C:	~ 800 mPas.	~ 1150 mPas.
Mix viscosity A+B at 23 °C:	After 15 min. maturing time ~ 900 mPas. (without adding water)	
Solids content in mix:	~ 72 %	
Density at 20°C:	1.52 kg / l	1.12 kg / l
Density at 20°C in the mix:	1.36 kg / l	
Mix ratio PBW:	100 PBW	25 PBW
Mixing times:	2 min. minimum + ~ 15-20 min. maturing time and (water addition) after maturing time mix for another minute.	
Pot life (processing times) 20°C:	max. 1.5h with maturing time, do not process beyond!	
Material consumption:	As double – triple sealing, the first coat as primer ~ 0.20 – 0.30 kg / m <sup>2</sup> (as per substrate) and any other coat as coverlayer with each ~ 0.15 – 0.20 kg / m <sup>2</sup>	
Trocknungszeit bei 20°C:	Curing times are influenced by air moisture and temperature. - tack-free after ~ 6-8 h, accessible after ~ 16 h, chargeable after ~ 48 h - fully mechanically and chemically chargeable after 4-7 days On high air moisture (> 70%) you must reckon a doubling of curing times. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible.	
Shelf life:	~ 6 months at 15°C to 25°C storage temperature, afterwards agitating the fillers may be hindered.	
Colour:	According to colour chart	
Cleaner:	Water (if no curing has taken place)	
GISCODE:	RE 1 (epoxy resin products, solvent-free)	
CE Norm as per DIN EN13813:	CE-label: EN 13813 SR-AR1-B3,3-IR4	
<b>Water vapour –diffusion current density</b>	<b>Test report no. 4376 of Polymer Institute Flörsheim</b>	
Test method as per DIN EN 7783-1: Classification as per DIN EN 1504-2: Diffusion equivalent air layer thickness:	Evaluation class II Class I = <5s <sub>d</sub> (m), class II = >5-50s <sub>d</sub> (m), class III = >50s <sub>d</sub> (m)	
<b>Mechanical properties:</b>	<b>Test report no. P 3835-35a of Polymer Institute Flörsheim</b>	
Shore D hardness DIN 53505:	~ 84 Shore D	
Adhesive tensile strength DIN EN 1542:	~ 3.3 N/mm <sup>2</sup> 100% crack in concrete	
Abrasion resistance DIN EN ISO 5470-1	(Taber) ~ 104 mg/1000 U	
Impact resistance DIN EN ISO 6272	≤ 4 Nm	



Date 08.07.2011

**Important changed technical information for the following products:**

Regards:

**2 K PLASTISTONE® EP-DF Easy Floor WE –**  
**2 K PLASTISTONE® EP- Easy Seal WE**

Dear customers,

The following technical changes are announced today (08.07.2011):

With this technical information, the statements/recommendations valid to this date are being altered:

Due to an adaptation of formulations for materials 2K EP-DF Easy Floor and 2K EP Easy Seal WE, we could considerably reduce deposition of filler portions (this would have led to problems especially in warmer seasons and on longer transport ways).

Products are now more storage and transport stable. Properties of cured products are not being changed by this fact!

For achieving the accustomed levelling behaviour for sealings and coatings in the future, pay attention to the following:

**2K EP-DF Easy Floor WE processing as sealing:**

After mixing components A+B, add 10 % PBW of water in drinking quality and mix thoroughly.

On processing as first coat or as primer, water addition can be increased up to 15% (for top coats, water addition of 15 % is not recommended due to opacity, 10 % should be sufficient).

**2K EP-DF Easy Floor WE processing as self-levelling coating:**

After mixing components A+B, add 5 % PBW of water in drinking quality and mix thoroughly

(Water addition is only calculated for components A+B, not for additives! E.g. 14.64kg bundle + 0.73l water).

**2K EP-DF Easy Seal WE processing as sealing:**

After mixing components A+B and compliance with the maturing time of 15-20 min., add 10 % PBW of water in drinking quality and mix thoroughly. On processing as first coat or as primer, water addition can be increased up to 15% (for top coats, water addition of 15 % is not recommended due to opacity, 10 % should be sufficient).

This alteration comes into effect immediately. We kindly ask you to mind this on reception of your next delivery.