

## Case study garage coating

Reconstruction of a double garage with Plastifloor®  
in only 8 hours

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For some men, the garage is their playground or even a hideaway. But mostly the garage contains things that you do not need that often and of course the beloved car. But what if the garage floor is fissured, permeable or uneven? What to do with all the things that sand there and how long shall the floor reconstruction take?

The solution is now at hand:

With the **Plastifloor®** floor coating system by Plasti-Chemie International GmbH, old garage floors can be completely reconstructed in only one day. The garage is being cleared in the morning and subsequently the substrate is being prepared professionally. In order to prevent the walls from getting wet when snow and ice are defrosting, a waterproof cove should be set before installing the **Plastifloor®** floor coating system.

Already after an installation time of 8 hours the coating is finished and only 2 hours after the last sealing, it can fully be passed over. In addition, the floor is skid-proof, waterproof and available in many colours. Thus, reconstruction of the garage is finished within only one day.

The following pictures show the situation on site: The double garage has been coated with an epoxy resin paint that was already peeling off. Additionally, numerous cracks and warpings were showing in the substrate that had to be evened out.



The old EP coating is peeling off



Junctions are being cut in

At first, the defective EP coating needed to be shot-blast, the existing joints, cracks and junctions needed to be cut in in order to increase flank adhesion. Finally the substrate was cleaned with a vacuum cleaner before the new Plastifloor® floor could be installed.

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Shot-blasting



Joints are cramped

The prepared subsurface has now an adhesive tensile strength of 1.5 N/mm<sup>2</sup>. This value is required for ensuring an adhesion of the coating system onto the subsurface. Afterwards the floor has been primed with Plastifloor® 112, 0.4 kg/m<sup>2</sup>. Partially the screed needed to be revised with a KH-mortar slope wedge made of Plastifloor® 510 and mortar mix B2 in order to produce an even surface corresponding to DIN 18202. In order to close the cracks in the substrate, the newly developed plasto – elastic filler PET was used in this application. This filler combines the ductile properties of the PET-granulate with the elastic properties of Plastifloor® membrane resin 332.



Priming with Plastifloor® 112



Cracks are sealed with Plastifloor® 510

Then followed the installation of an elastic membrane Plastifloor® 332/z, approx. 2.0 kg/m<sup>2</sup>. This flexible, shock absorbing interlayer allows a jointless and permanently crack-free installation of the new resin coating made of Plastifloor® 410. For achieving the required slip-resistance class R 11, the wet coating is being broadcast with colour quartz sand - size 0.4 – 0.8 mm, before applying the head sealing Plastifloor® 522, approx. 0.6 kg/m<sup>2</sup>.

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Installing the membrane



Installing the cove

The Plastifloor® coating's advantage is obvious:

Due to short curing times between the single layers, reconstruction works can be effected by a specialized company in a very short time frame. The customer saves precious time and trouble. For example a new tile floor cannot be strained immediately after installation and the problems with joints that quickly become fragile will emerge again after a short period of time.



Connection to the wall with membrane



Installation of the coating

**Plastifloor®** is a thermoplastic material. Elongations of materials on changing temperatures are being coped with more easily. Fallen parts are equally easier absorbed by this floor as it is being constructed vibration-absorbing in several layers.

**Plastifloor®** is skidproof and easy to clean.

The floor reconstruction has been effected by an authorized flooring contractor on a Friday from 8.00 to 18.00 o'clock:

The result is convincing:

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The finished garage floor .



Fully chargeable after only 2 hours.

**Plastifloor®** is the ideal floor coating for new building and reconstruction of garage floors.

It convinces by its durability, fast installation time and cost/benefit ratio.

We dispose of 20 years of experience and worldwide references!

Ask for experienced flooring companies in your area. You can choose from a variety of colours and slip-resistance classes. Tel.: 03741/5583-0

You find videos on our website or on [www.youtube.com](http://www.youtube.com)

We also send you information material by post.

Data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We convey these results, with which we do not take over liability going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us. © Plasti-Chemie International GmbH, 2011