

Case study pharmacy floor

Reconstruction with Plastifloor® flakes floor
at P&G (Proctor & Gamble) – Mascara Facility,
Hunt Valley (USA)

Procter & Gamble is a U.S. consumer product enterprise with agencies around the whole world that has its headquarters in Cincinnati, Ohio (USA). P&G produces a variety of consumer goods, amongst others products for well-known brands like Wella, Gillette, Ellen Betrix and Tempo. In addition to hygiene during the manufacturing process, the company sets a high value on the use of secure and durable products for reconstructing existing production sites. On the renovation of floors, fast availability of the surfaces in question after closedown of production is especially important in order to save expenses and to have the least possible production downtimes. Exactly these factors have played a decisive role for choosing our **Plastifloor®** floor coating system for the reconstruction of production areas at Mascara Facility in Hunt Valley (USA) by our related partner Durex Coverings, Inc. The client's choice was the **Plastifloor® flakes floor system** that is being produced by Plasti-Chemie International GmbH and sold by our U.S. partner Key Resin Company. This system complies with the hygienic requirements and can be fully used only 2 hours after installation.

The following pictures show the proceeding for the reconstruction with **Plastifloor® flake floor**.

At first, the existing screed needed to be shot-blast in order to remove the cement laitance and to ensure a secure bond between coating and substrate. The existing joints, cracks and accesses were mortised. Eventually, the substrate was cleaned with a vacuum cleaner before the new **Plastifloor® coating** could be installed.



Shot-blasting



Joints are being cramped

The prepared substrate has now an adhesive tensile strength of 1.5 N/mm². This value is required for ensuring secure adhesion of the coating system onto the substrate. Afterwards the floor has been primed with **Plastifloor® 112** 0.4 kg/m². Partially the uneven substrate needed to be revised with KH-mortar made of **Plastifloor® 510** and mortar mix B2 in order to produce an even surface corresponding to DIN 18202. For closing cracks in the substrate, **Plastifloor® 510 mortar resin** was being mixed in a ratio of 1:1 with Plastifloor s/l filler material and then being filled into the cracks that had to be closed.

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Priming with Plastifloor® 112



Cracks are being cast with Plastifloor® 510 + s/l filler

Then followed the installation of a flexible membrane of **Plastifloor® 332/z**, ~ 3.0 kg/m². This flexible, shock-absorbing interlayer allows a jointless and permanently crack-free installation of the new resin coating made of **Plastifloor® 526** ratio 1:1 filled with s/l filler material.

In order to achieve the required slip-resistance class R 11 and to enable an attractive colouring, the wet coating was being broadcast all over with colour flakes before the head sealing with **Plastifloor® 522**, ~ 0.6 kg/m² could be applied twice.



Installing the membrane



Broadcasting the top coat with colour flakes

The advantage of the **Plastifloor® floor coating** is obvious:

Due to the short curing times between the single layers, reconstruction works can be effected by a specialized company within a very short time slot. Thus the customer saves precious time and expenses that would result from a loss of production. For example a new tile floor cannot be strained immediately after installation and the problems with joints that are quickly washed out by cleaning will emerge again after a short period of time. Epoxy resins are thermoset materials – they do not withstand the thermal strain by hot and cold water exposure in a pharmaceutical company. Thus a **Plastifloor®** acrylic resin floor is the proper decision for the client

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The finished, jointless Plastifloor® floor can be fully loaded only 2 hours after its installation.

Plastifloor® is a thermoplastic material – elongations of materials on changing temperatures are being coped 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 coating is tested according to LMBG and approved. Thus the floor can be installed in a pharmaceutical plant without hesitation.



The floor reconstruction has been effected by an authorized flooring contractor:

Durex Coverings, Inc. 7395 Washington Blvd. Suite 105 Elkridge, MD 21075

phone: +1 410-579-8770 fax: +1 410-579-8775 Visit us at www.durexcoverings.com



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The result is convincing:



Production could re-start on Monday already.

Plastifloor® is the ideal floor coating for new building and reconstruction works in the pharmaceutical industry. It persuades with its durability, fast installation time and the cost-benefit ratio. **Plastifloor®** is approved for direct contact with food and can be installed according to the safety organization's directions in slip-resistance classes R 9 – R 13.

We dispose of 20 years of global experience and references. **Plastifloor®** floors are globally available and we provide worldwide technical support.

Ask for experienced flooring companies in your area. You can choose from a variety of colours and slip-resistance classes. Tel.: +49 3741/5583-0. You find videos on our website or on www.youtube.com

Of course we also send you informative literature by mail.

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, 2012