

Case Study Walk In Cooler

Reconstruction of a cooler with Plastifloor® in St.Martin (FWI)

PLASTI CHEMIE
Produktionsgesellschaft mbH

Hotel resort in sunny island St. Martin called La Samanna needed a reconstruction of a walk in cooler for storing groceries and keeping them fresh in a hygienic environment. The old flooring made of tiles was difficult to clean and maintain properly and did not provide any mechanical or chemical protection of the coating. Not to mention the necessity of the coving at the wall-floor joints and enhancing the slope for better draining of water that tends to gather in the joints between the tiles. The solution was exact- a seamless flooring made by Plastifloor® together with 5cm high coving. Preventing any downtimes during working hours was also a condition . The choice fell on the Plastifloor® flooring system with elastic membrane and broadcasted coating Plastifloor® 418 , R 11 corresponding to the test certificate of material testing institute Hellberg GmbH no.: 124591-S/08, which is being produced by Plasti-Chemie Produktionsgesellschaft GmbH.



1. Grinding the Substrate



2. Cove prep- attaching profiles



3. Substrate ready for priming

The above pictures show the situation on-site before application of the Plastifloor® system: As in many similar cases, tiles tend to break and are difficult to clean properly especially between the joints. Already after longer usage period, the floor showed fractures of wall-floor junction. Proper substrate preparation was necessary hand grinding some areas to ensure that substrate pores are opened. The cove profiles were glued to the walls and applied with primer Plastifloor® 332 and broadcasted.



4. Priming the holes



5. Priming cove areas



6. Broadcasted cove areas after priming

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As the slope situation had neither been paid attention to during the new construction, the defective tile coating needed to be milled off as well. The existing joints were cut free. Finally the substrate was shot-blast and vacuumed before the new Plastifloor® floor could be installed.



7. Mixing Plastifloor®112 with Hardener 50W



8. Priming the details with brush first



9. Priming the whole area with roller 'lamb skin'

The prepared subsurface has now an adhesive tensile strength of 1.5 N/mm². This value is required for ensuring an adhesion of the coating system onto the subsurface. Afterwards the floor has been dried and primed with Plastifloor® 112 0.4 kg/m².



10. Holes need to be filled with mortar



11. Mix Plastifloor® 510 with mix C2 and Hardener



12. Reparations done

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Partially the screed needed to be revised with a KH-mortar slope wedge made of Plastifloor® 510 and mortar mix C2 in order to guarantee the proper drainage of accumulating water. The inlet gutters were looped-in professionally for ameliorating side adhesion.



13. Applying membrane Plastifloor® 332



14. Broadcasted with sand 0,6-1,2 mm



15. Applied with Swedish trowel

The installation of an elastic membrane Plastifloor® 332, approx. 1.2 kg/m² slightly broadcasted with natural sand 0,6-1,2mm enhances the final properties of a cured coating. This flexible, shock absorbing interlayer allows a jointless and permanently crack-free protection. Strengthens the system and provides extra bonding between base coating and primer layer. Membrane provides the flooring with higher performance and long durability and extra waterproofing protection.



16. Pre-primed substrate and slightly broadcasted



17. Use spatula to equally spread the mixture



18. Application of the cove

Before installing the main base coating we recommend to install the coves. The coves are made of Plastifloor® 540H (ready to use cove paste) mixed with aggregate and coloursand. Applied with a spatula. Application of Plastifloor®540H is recommended with 1% of hardener.

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Installation of the new resin coating made of Plastifloor® 418. 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 top sealing Plastifloor® 526, approx. 0.6 kg/m².

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 grocery plant.

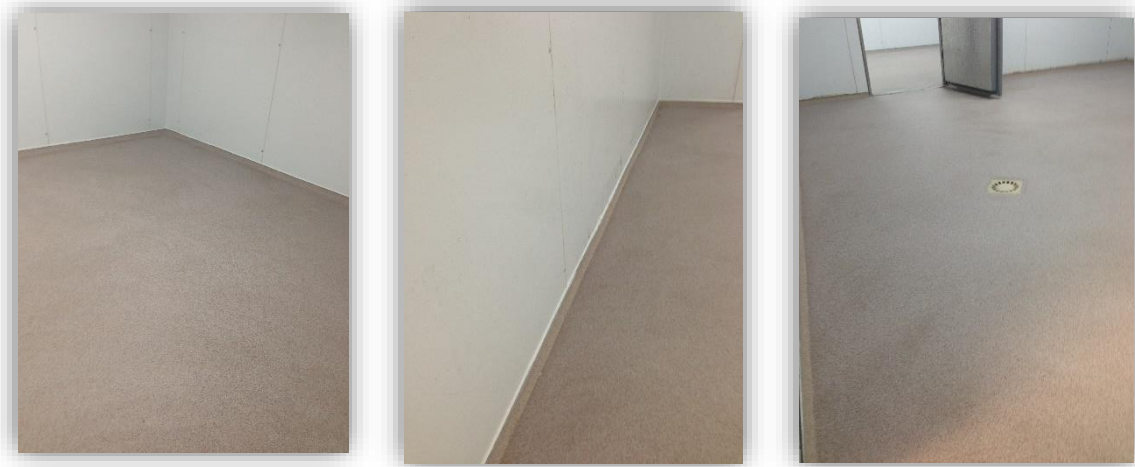


Plastifloor® 526 sealer is applied firstly around detailed areas and then to a whole area with trowel. Cured within 45 minutes.

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The result is convincing:



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 skid proof and easy to clean. The coating is tested according to LMBG and approved. Thus the floor can be installed in a food processing company without any hesitation.

The floor reconstruction has been effected by an authorized flooring contractor from Friday 12.00 o'clock until Sunday 17.00 o'clock:

Plastifloor® is the ideal floor coating for reconstruction works in the food industry. We have more than 25 years of experience. Ask for experienced flooring companies in your area. You can choose from a variety of colours and slip-resistance classes. Tel.: +49 3745/744320-0

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www.plastifloor.net

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