



PU-COTE 405F – Polyurethane Floor Coating

DESCRIPTION

PU-COTE 405F is a coloured, one component, abrasion resistant, medium duty polyurethane thin-layer floor coating. Solvent based. It cures by reaction with ground and air moisture.

USES

PU-COTE 405F is mainly used on medium duty industrial floors, in interior surfaces, for car repair garages, car parking areas, warehouses, storage rooms, factories, animal breeding farms, cold storage rooms (freezers), etc..

It can also be used as a acid spillage resistant coating, and basement sealing against ascending humidity for floors or walls, as well as a chemical resistant protection film against oils, grease, moisture, chemicals and other liquid dirt staining.

ADVANTAGES

- Simple application (roller or airless spray)
- High abrasion resistance
- Decorative
- Chemical resistance
- Applied areas does not absorb liquid or dirt
- Stops the creation of dust

METHOD OF USE

Surface Preparation

The surface needs to be grinded with a stone- or diamond- surface grinding machine (Do not use metal-ball blasting machine).

Ensure all surface where PU-COTE 405F is to be applied must be free from oil, grease, wax and loose materials, which may harmfully affect the adhesion of the coating. The surface needs to be clean, dry and sound. Maximum moisture content should not exceed 5%. New concrete structure need to dry for at least 28 days. Do not wash surface with water.

Repair of Cracks

Clean cracks and hairline cracks of dust, residue or other contamination. Fill all cracks with suitable putty. Smoothen the putty surface with sandpaper or a mechanical grinder the next day.

Application

For absorbent surfaces such as concrete, cement, screed and wood, apply PU-COTE 404P by roller, brush or spray gun. After 2 to 3 hours (not later than 4 hours) and while the primer is still tacky, apply the first layer of coloured PU-COTE 405F.

For non-absorbent surfaces such as metal, terrazzo, mosaic, ceramic tiles, power-floated concrete, apply EPOXICOTE 401P as a primer for the first layer by using a roller or brush. After 12 hours (not later than 18 hours) apply the first layer of coloured PU-COTE 405F.

After application of first layer of coloured PU-COTE 405F, allow 2 to 3 hours for the coating to cure (not more than 4 hours) and apply the second layer of the coloured PU-COTE 405F.

For anti-slip finish, dry silica sand can be sprinkled evenly after the first layer of PU-COTE 405F when still wet.

HANDLING

PU-COTE 405F should be stored in a dry place under shade, free from moisture contact.

PU-COTE 405F contains isocyanates. Remove splashes from skin with water. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention.

CONSUMPTION

Approx. 300g/m² applied in two layer depending on surface porosity and application method.

PACKING AND SHELF LIFE

PU-COTE 405 F is supplied in 20 kg pail in grey, light green, dark green, terracotta-red and yellow, and has a shelf life of 9 months in tightly closed original packing.

SPECIFICATIONS	
Composition	Pigmented Polyurethane pre-polymer, solvent based
Density	1.2 ± 0.1 g/cm ³
Solid Content	60 ± 2 %
Resistance to Water Pressure	No Leak (1m water column, 24 hr) (DIN EN 1928 Test A)
Adhesion to concrete	2.2 ± 0.2 N/mm ² (ASTM D 903)
Shore A Hardness	> 95 ± 5 (ASTM D 2240)
Tack Free Time	2 - 3 hours (at 20°C, 50% RH)
Light Pedestrian Traffic Time	12 hours (at 20°C, 50% RH)
Final Curing Time	4 days (at 20°C, 50% RH)
Application Temperature	5°C to 35°C (at 20°C, 50% RH)

CHEMICAL PROPERTIES

Water	+
Potassium hydroxide 20%	+
Sodium hydroxide 20%	+
Ammonia 10%	+
Salt	+
Domestic detergents	+
Diesel oil	+
Hydrochloric acid 10%	+
Sulfuric acid 10%	+
Phosphoric acid 10%	+
Citric acid 10%	+
Ethanol 10%	+
Dichlormethane	-
N-methyl pyrrolidon (brake fluid)	-
{ + Stable, - Not Stable, ± Stable for a short period }	

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