



PU-COTE 404P – Polyurethane Floor Primer

DESCRIPTION

PU-COTE 404P is a transparent, semi-rigid, deep penetrating, one component polyurethane primer. Solvent based. It cures by reaction with ground and air moisture.

USES

PU-COTE 404P is mainly used as a primer for polyurethane floor coatings on absorbent surfaces like concrete, lightweight concrete, cement screeds, mortar, wood, etc..

It can also be used as a surface stabilizer of old and brittle concrete surfaces, and as a chemical resistant protection film against oils, grease, moisture, chemicals and other liquid dirt staining.

ADVANTAGES

- Simple application (roller or airless spray)
- Excellent anchoring to the absorbing surfaces
- Fast curing
- Provides enough elasticity to follow surface movements
- Resistant to frost

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 404P 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.

Priming

For best results, the application and cure temperature should be between 5°C to 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

Apply PU-COTE 404P by roller or brush. For larger surface, airless spray application is possible.

After 2 to 3 hours (not later than 4 hours) and while the primer is still tacky, apply polyurethane coating.

HANDLING

PU-COTE 404P should be stored in a dry place under shade, free from moisture contact.

PU-COTE 404P 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. 200g/m² applied in one layer depending on surface porosity and application method.

PACKING

PU-COTE 404P is supplied in 17 kg pail.

SHELF LIFE

PU-COTE 404P has a shelf life of 9 months in tightly closed original packing.

SPECIFICATIONS	
Composition	Polyurethane pre-polymer, solvent based
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 (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

Potassium hydroxide 20%	+
Ammonia 10%	+
Hydrochloric acid 10%	+
Benzene	+
Domestic detergents	+
Diesel oil	+
Sodium hydroxide 20%	+
Sulfuric acid 10%	+
Sea water	+
Toluene	±
Dichlormethane	-
N-methyl pyrrolidon (brake fluid)	-
{ + Stable, - Not Stable, ± Stable for a short period }	

Asia Mortar

Singapore • Malaysia • Vietnam • China

Tel: +65 6269 5575 • +60 6 4416 818 • +84 8 3820 8686 Email: info@asiamortar.com Website: www.asiamortar.com

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