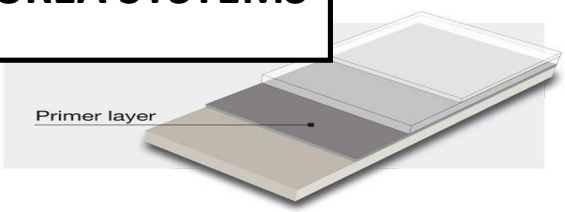
POLYPRIME EP 450

POLYUREA SYSTEMS

EPOXY SOLVENT FREE PRIMER

Epoxy primer on damp wet concrete.



Features

POLYPRIME EP 450 is a low viscosity epoxy binder system developed specifically for damp or wet application areas. It is designed to provide optimum application and adhesion properties on properly prepared dry or wet concrete substrates. Primer / adhesion promoter to problematic concrete substrates. POLYPRIME EP450 has been developed as a penetrating primer for all NCI POLYUREA systems. Due to its extreme tolerance to wet conditions, POLYPRIME EP450 can be applied to all types of wet-damp and difficult to wet substrates.

Advantages

- 100% Solids, **Zero VOCs**
- Low Viscosity.
- Odorless, No Toxic Vapors.
- Penetrating Sealer.
- Formulated as a System with ***NCI POLYUREA*** Products.
- Eliminates Pin-Holes.
- Applied by Brush, Spray or Roller.
- Increase Adhesion to Concrete by up to 3x.
- Excellent adhesion onto marginally pretreated concrete and metals
- Very Good adhesion on properly prepared damp or wet concrete.
- Enables floor application to proceed quicker onto partially cured concrete, roof decks after rainfall and after surface preparation with high pressure water jetting.

Applications.

Primer/sealer for concrete
Primer for NCI POLYUREA systems.
Primer for Polyurethane coatings.
Consumption: 300-600gr m2

Key data

Polyprime EP450	**A**	**B**
Viscosity at 25°C (*Rotary viscosity, ISO 3219*), mPa.s (cP)	600-800	600-1400
Recommended mix ratio by weight	100	60
Solids %	100	100

Initial mix viscosity @ 23 C, mPa.s (cP)	~ 1,000
Pot life @ 23 C, min	45
Gel time, TECAM, 250 g, @ 23 C, min	80
Film appearance, visual	Glossy, no blushing/exudation
Walk on Cure time @ 23 C, hrs	12

Typical data

POLYPRIME EP 450	**A**	**B**
Aspect (visual)	clear liquid	Brown liquid
Color (Gardner, ISO 4630)	2	10
Vapor pressure at 20°C (balance), Pa	0.1	0.3
Density at 20°C (ISO 1675), g/cm3	1.13	1.01
Flash point (Pensky Martens, ISO 2719), °C >	121	85

Preparation/Installation:
Concrete should be cured 28 days and be clean, structurally sound and of wax, dirt, loose paints, curing compounds and petrochemicals. Cracks, damage control joints and construction joints should be prepared prior to application. Concrete must be prepared by diamond grinding machine. Apply 300-600gr per m2 in two layers and wait the primer to dry for 12 hours. Then apply the NCI POLYUREA system. Maximum recoat window with NCI POLYUREA systems is 24 hours.

Packaging &
Storage
POLYPRIME EP 450 is supplied in 8kgs -16kgs and 30kgs kits. The product has a shelf life of one year when stored at room temperature in the original sealed container.

More information s at you supplier and distributor.

Important Note:
All guidelines, recommendations, statements and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either impressed or implied. It is the user s responsibility to satisfy himself by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability from his use of the product.

NCI CHEMICAL INDUSTRY LTD
8 Ipponaktos street, Nicosia,
Cyprus, 1016
Tel: 00357-22623303
Fax: 00357-22624265
info@ncipolyurea.com
www.ncipolyurea.com