

UNICHEM PRIMER EP 100

SOLVENT FREE EPOXY RESIN BASED PRIMER FOR FLOORING AND COATING

UCA-FC-02-0722

DESCRIPTION

UNICHEM PRIMER EP 100 is two part solvent free epoxy primer & sealer designed for sealing absorbent or porous substrates like concrete, cement, asbestos, masonry and non porous substrate such as steel, aluminum and brass.

USES

- ❖ UNICHEM PRIMER EP 100 is recommended as a primer before application of UNICHEM FLOOR ESF and UNICHEM PU SB 70
- ❖ It may be used as a primer for all concrete surfaces that is to be coated with epoxy & PU based coatings.
- ❖ UNICHEM PRIMER EP 100 acts a sealer, preventing moisture from interfering with the curing of subsequent coatings

ADVANTAGES

- Quality: Factory quality controlled pre-weighed materials thus reducing site errors during mixing.
- Adhesion: Excellent adhesive bonding on concrete, ceramic, steel or wood.
- Durability: Enhanced adhesion of finish coat ensures longer durability
- Chemical Resistance: Resistant to a wide range of acids, alkalis and industrial chemicals.
- Waterproofing: Cured surface is impermeable to water.

STANDARDS

ASTM-C 881-87, - Type I & Type III, Grade 2, Class B&C specification. Passes ASTM -C 883 & ASTM - C 884.

TYPICAL PROPERTIES

PROPERTY	RESULT
COLOUR	CLEAR PALE AMBER
POT LIFE	30 TO 35 MINUTES (25 °C)
OPEN TACK TIME	1 TO 2 HOURS (30°C)
CAN BE COATED OVER IN*	12 hours *Actual timings may vary depending on humidity and temperature. Timings mentioned are on the basis of 25°C & 50% RH
PACKAGING	10 & 20 ltr kit
COVERAGE*	Apply at a rate of 5 – 8 m ² /l . *The exact coverage will depend upon the porosity, smoothness of surface, wastage and application method
WET FILM THICKNESS (W.F.T)	50 TO 200 microns
DRY FILM THICKNESS (D.F.T)	50 TO 200 microns
MINIMUM APPLICATION TEMPERATURE	5°C
MECHANICAL PROPERTIES*	
COMPRESSIVE STRENGTH	50 MPa (ASTM C579)
FLEXURAL STRENGTH	40 MPa (ASTM C580)
TENSILE STRENGTH	25 MPa (ASTM C307)
ADHESION TO CONCRETE	3.7 MPa (Cohesion failure of concrete)

*The values given above for typical properties are average figures achieved in controlled laboratory conditions at 20-25°C. Actual values obtained on site may show minor variations from those quoted.

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CHEMICAL RESISTANCE

It has excellent resistance to most aqueous systems, sewage, urine, fresh water, sea water, alkalis, diluted acids, mineral oils, vegetable oils & fats, ammonia and formaldehyde

INSTRUCTIONS FOR USE

SURFACE PREPARATION

Surface preparation must be thorough. Light mechanical scarifying or captive blasting is preferred to acid etching which is only acceptable where access to mechanical equipment is not possible. Chemical degreasers are only recommended for the removal of light oil contamination prior followed by mechanical treatment. New concrete must be cured for at least 21 days and have a moisture content of less than 5%. The substrate should not suffer from rising damp conditions.

Note: UNICHEM PRIMER EP 100 should not be used in bonding old concrete to new freshly laid concrete.

MIXING

The total base and hardener components should be thoroughly mixed in the base container. Refrain from part mixing as this can affect the final properties.

APPLICATION

After mixing immediately apply to the previously prepared substrates using a short haired stiff nylon brush ensuring thorough wetting of surface. Wait atleast 12 hours* after application before proceeding with subsequent coatings.

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CLEANING

Spillages should be absorbed with sand earth etc. and disposed in accordance with local regulations. Clean tools & equipment with UNICHEM THINNER /solvents immediately after use.

STORAGE & SHELF LIFE

Minimum 1 year in original sealed containers at 25°C. The product should be kept in a cool and well ventilated place, protected from heat and direct sunlight. Containers must be tightly closed. Stir the contents before use.

SAFETY PRECAUTIONS

Keep away from flame and sparks. Use protective gloves and safety glasses. Contact could cause dermatitis. Protect eyes & skin. In case of skin contact, wash with soap and water. If irritation persists, consult physician. Do not breathe vapors. Do not swallow. If swallowed, seek medical attention immediately. DO NOT INDUCE VOMITING.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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