

# WHITECHEM PRIMER 80



*Two Component, Solvent Free, Moisture Tolerant, Epoxy Based Primer*

## 1 – PRODUCT DESCRIPTION

**WHITECHEM PRIMER 80** is a two component, solvent free, epoxy based primer. It is used as primer or leveling layer before epoxy, polyurethane and polyurea coatings.

## 2– PRODUCT PROPERTIES

- Low viscosity
- Suitable reaction time
- Can be used on damp surfaces ( up to % 6)
- Easy to apply (brush, roller, airless gun)
- Excellent adhesion on concrete and screed surfaces
- Penetration feature (impregnation) to the surface
- High mechanical and chemical resistance
- Gap and crack filling feature with filled structure

## 3 - APPLICATION AREAS

- Priming of concrete and screed surfaces before epoxy, polyurethane and polyurea coatings
- Protection of concrete surfaces against abrasion, dusting and chemicals
- Repair of broken, cracks and gaps on concrete surface by mixing with sand

## 4 - APPLICATION CONDITIONS

- The surface must be strong and of sufficient strength. Application should not be made on screed concrete which has low quality. The compressive strength for surface must be

minimum 25 MPa, the lowest adhesion strength should be 1,5 MPa.

- Before application on fresh concrete the concrete should be allowed to dry for at least 28 days.
- The surface and ambient temperature should be at least 10 °C and not more than 35 °C. The application should be made while the air temperature decreases. If the application is made while the air temperature rises, small holes may form on the liner surface.
- Relative air humidity should be less than %80.
- The surface moisture content should be maximum 6%.
- Attention should be paid to condensation on the surface. Application should not be made early in the morning. The surface temperature should be at least 3 °C higher than the dew point.
- Do not apply on frozen, melting surfaces or surfaces where rain is expected within 24 hours.

## 5 - SURFACE PREPARATION

- The application surface should be clean and dry. The elements that prevent adhesion should be cleaned from the surface.
- If necessary, the surface should be wiped off with suitable wiping machines in order to remove the weak concrete on the surface for to open the eyelets and openings. The glazed top layer of ceramic surfaces should be roughened. Dust happened after wiping should be removed from the surface by brush or vacuum cleaners.
- Any fractures, gaps and segregations on the surface must be repaired with suitable epoxy mortar (WHITECHEM EP MORTAR 310) or cement based repair mortars.

### 6- APPLICATION

- First, component A should be mixed for several minutes.
- Add component B into the prepared component A and mix for 3-4 minutes with a low speed electric stirrer (~ 300 - 400 rpm) or suitable equipment.
- The prepared primer mixture is applied to the surface by brush, roller or airless spraying machines.
- If necessary, quartz sand (0.5 kg quartz sand per 1 kg primer mixture) is added to the mixture and the mixing is continued for a few more minutes. The prepared mixture can be applied with a trowel.

#### Considerations:

- A and B components must be mixed according to the specified mixing ratio.

- Do not mix at high speed for a long time to avoid air bubbles.
- Since the pot life of the mixture is short, the prepared mixture should be used without waiting in the mixture bucket. If necessary, the A-B components should be mixed in half. The mixture which started to gel in the bucket should not be used.
- It should be taken into consideration that the pot life and drying time will be shorter at high temperatures and longer at low temperatures.

### 7 – CONSUMPTION

When it is used as primer the consumption is 0,3 - 0,5 kg/m<sup>2</sup>.

### 8 - TECHNICAL SPECIFICATIONS

#### Component Properties ;

Parameters	Result
Chemical structure	Epoxy
Color	Component A: Cream, Fuzzy Component B: Yellow, Transparent
Solid Content	100%
Mixing Density	1,25 g/cm <sup>3</sup>
Mixing Viscosity	800 - 1500 rpm
Mixing Ratio by Weight	3/1 (A/B)
Pot Life of Mixture *	~ 90 min.
Curing Time *	~ 18 hr.
Full Chemical and Mechanical Resistance Time	7 days

\* Times may vary depending on the temperature and humidity of the environment and surface.

**Finished Product Features ;**

Parameters	Result
Hardness (Shore D)	~ 78
Adhesion to Concrete	2,0 ± 0,3 Mpa (rupture in concrete)

**9 - PACKING**

A + B: 20 kg/set (metal bucket)  
Component A (Resin): 15 kg  
Component B (Hardener): 5 kg

**10 - SHELF LIFE AND STORAGE CONDITIONS**

- In original, unopened and undamaged packages, it is suitable for 9 months from date of production when stored correctly between +5 °C and +30 °C.
- The products should be stored in dry and away from direct sunlight.

**11 – CLEANING**

- Clean all tools and application equipment with suitable cleaner solvent immediately after use. Hardened / cured material can only be cleaned by mechanical methods.

**12 – WARNINGS AND RECOMMENDATIONS**

- Component A of **WHITECHEM PRIMER 80** component contains epoxy resin, component B contains abrasive polyamines. Follow the instructions in MSDS form before using or when a problem is encountered.
- Personal protective equipment (clothing, goggles, gloves) should be used during application. In case of contact with skin, wash with plenty of soap and water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- There must be sufficient air circulation in the application area.
- Keep products away from sources of ignition. Do not heat products by sun or other methods. Do not smoke during application. Do not throw empty buckets into fire.
- Hand over empty barrels to authorised hazardous waste collector companies.