



WHITECHEM PRIMER 90

1 – DESCRIPTION

WHITECHEM PRIMER 90 is a transparent, half-elastic, single component polyurethane primer that penetrates to deep. It is a solvent-based product. It cures with the moisture of the surface and the air.

2 – PROPERTIES

- Excellent adhesion to absorbent surfaces.
- Highly elastic to meet surface movements.
- Easy application (by roller or airless gun).
- Resistant to accumulated water and frost.
- Economical.

3 - APPLICATIONS

- It can be used as a primer especially for concrete surfaces before application of polyurethane based waterproofing membranes and sealants like Akfix 450

4 – INSTRUCTIONS

- The substrate must be clean, dry and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder an adhesion.
- The substrate must be sound and of sufficient strength. If in doubt, apply a test area first.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- Polyurethane waterproofing membrane must be thoroughly mixed for 3 min in order to achieve a homogenous mix using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
- Over mixing must be avoided to minimize air entrainment.
- **By brush:** With a thick haired brush.
- **By roller:** With a solvent resistant, “non-fuzzy” roller.
- **By spray:** Airless spray equipment, for example: piston pump Wagner EP 3000. (pressure: ~ 200 - 250 bar, nozzle: 0.38mm - 0.53mm, angle: ca. 50 - 80°).

5- PACKAGING

- 15 Kg metal can.

6- STORAGE AND SHELF LIFE

9 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.



7- SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

8- TECHNICAL PROPERTIES

Chemical Base	: Solvent Base Polyurethane	
Density	: 1,00 ± 0,03 gr/ml	(ASTM D1875)
Appearance/Color	: Liquid, Clear	
Surface Curing	: 2-3 hrs (23°C and %50 R.H.)	(ASTM C679)
Ready for foot traffic*	: 12-18 hrs (23°C and %50 R.H.)	(ASTM C679)
Full Cure	: 4 days (23°C and %50 R.H.)	
Shore A Hardness	: 90 ± 5	(ASTM D 2240)
Adhesion to Concrete	: 2,0 ± 0,3 N/mm ²	(ASTM D 903)
Heat Resistance	: -20°C and +80 °C	
Application Temperature	: +5 °C and °35 oC	

9- IMPORTANT

- The surface must be clean, dry and bearing and free of any residual material and movable parts that would prevent adhesion.
- Old coatings, oil and dust must be fully removed from the surface. Sharp points should be covered; areas that are suitable for cracking such as vertical/horizontal joints should be angled.
- Open a V-shape section at the area there are cracks on the surface and fill with polyurethane sealant.
- Wait minimum 28 days for fresh concretes
- For a single layer of application, 200-250 g/m² is recommended. If you are not sure of the floor strength, we recommend applying two-layer of Primer.
- Primer ensures a reliable and sound application of PU waterproofing coating.
- Primer is applied by a brush or roller until the whole surface is covered. For larger spaces, it is possible to apply by spraying with an airless pump.
- Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

10-LEGAL NOTICE

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchantability and fitness for a particular purpose.