

## **FLX 390 POROUS PRIMER** **POLYURETHANE PRIMER, SOLVENT** **BASED, ONE COMPONENT**



### **DESCRIPTION**

**FLX 390 POROUS PRIMER** is a transparent, rigid, deep penetrating, one component, quick drying polyurethane primer. Solvent-based. Used as a primer in

waterproofing and sealing applications on absorbent surfaces. Cures by reaction with ground and air moisture.

### **FIELDS OF APPLICATION**

**FLX 390 POROUS PRIMER** is mainly used as a primer for polyurethane waterproofing coatings and polyurethane joint sealants on absorbent surfaces like: concrete, mortar, plaster, wood, etc.

It can also be used as a primer on mineral-finished bitumen-felts as it bonds the mineral very efficient

### **ADVANTAGES - CHARACTERISTICS**

- Low cost.
- Simple application (roller or brush).
- Quick drying.
- Deep penetrating.
- Excellent anchoring to absorbent surfaces.

- Resistant to stagnating water.
- Provides high tensile and impact strength
- Heat and frost resistant
- Stops the creation of dust
- Chemical resistant

### **Surface preparation**

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and

dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed. **WARNING:** Do not wash surface with water. **WARNING:** Do not use a metal-ball blasting machine to grind the surface, because the heavy metal-ball impacts destroy the cohesion of the concrete surface and lower its stability.

### **Application**

Apply the **FLX 390 POROUS PRIMER** by roller or brush, until the surface is covered. You can use airless spray allowing a considerable saving of manpower. After 2-3 hours (not later than 4 hours) and while the primer is still a bit tacky, apply the polyurethane coating or the polyurethane joint sealant.

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

If the surface is very brittle, like lightweight concrete or porous cement screed, apply two layers of the product.

### **Packaging – Storage**

**FLX 390 POROUS PRIMER** is packed in 20 kg, 5 kg, and 1kg pails. Pails should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-35°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

### **Consumption – Shades**

About 200 gr/m<sup>2</sup> in one layer. **FLX 390 POROUS PRIMER** is transparent.

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TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Composition			Polyurethane pre-polymer. Solvent based
Resistance to water pressure		Internal test	No leak at pressure of 7atm.
Bend strength	(kg/cm <sup>2</sup> )	Internal test	400
Adhesion to concrete	(N/mm <sup>2</sup> )	ASTM D 903	> 2 (destruction of concrete)
Hardness (SHORE A Scale)		ASTM D 2240	>95
Resistance to high temperature	(°C)	Internal test	90
Resistance to low temperature	(°C)	Internal test	-40
Application temperature	(°C)	Conditions: 20°C, 50% RH	5 - 35
Overcoating time	(h)		1-3
Final curing time	(h)		48

*Remark:* The tests have been performed in laboratory conditions of +23°C temperature, 50% relative humidity and with no fresh air. It is possible to differ in comparison with the conditions of sites such as temperature, humidity, ventilation and absorbency of substrate.