



## **AKFIX PU BINDER 303**

### **1 – DESCRIPTION**

**AKFIX PU BINDER 303 BINDER** is a one component, solvent free, aromatic polyurethane binder. It is a moisture curing binder for binding of stones and mineral aggregates to form self-draining flooring. **AKFIX PU BINDER 303** formulated to be used indoors or outdoors applications as stone carpet.

### **2 – PROPERTIES**

- Excellent adhesion on stone and aggregates
- Easy to apply
- Low odour
- Moisture cure
- Solvent free

### **3 – APPLICATIONS**

- Binder for quartz and stone carpet floors
- Hotel and Shopping Center
- Flooring for courtyards, driveways and pavements
- Warehouses and showrooms

### **4 – INSTRUCTIONS**

#### **Substrate Preparation**

It is very important that the surface is prepared correctly to guarantee correct application and the best performance of the product. The most suitable method to prepare the surface is by shot blasting or by grinding with a diamond disk. All dust must then be removed with a vacuum cleaner. Surfaces to be treated with this product must be solid, perfectly clean and dry and have no capillary rising damp (max humidity not higher than 4%). Remove all traces of dust, grease and form release agents before application. Prime the substrate surface with Akfix Primer 90. Before spreading the mix, make sure the temperature of the substrate is higher than +15°C

#### **Preparation of the Mix**

Mix the **AKFIX PU BINDER 303** with the selected aggregates (natural stone, crushed marble or quartz) with a grain size of 2-4 mm or 4-7 mm at a ratio of 1:20 (binder : aggregates). Mix together with a drill at low speed fitted with a spiral mixing attachment or in a normal cement mixer for 10 minutes. The aggregates used in the mix must be dry. Ensure thorough wetting of the filler. The ratio between the binder and aggregates may vary slightly depending on the absorption of the substrate and the type of aggregate used.



## Application of Mix

The mixture is spread over the substrate with a trowel then is levelled using template strips and finally levelled and compacted with a trowel or a mechanical vibro-compactor (helicopter)

The workability of reactive resins is influenced by the ambient and substrate temperature. At low temperatures the chemical reactions are slowed down; this lengthens the pot life. At the same time the viscosity increases which leads to a higher consumption. High temperature accelerates chemical reactions so that the work time shortened accordingly. Apply the mix at a temperature of between +10°C and +30°C. Clean tools immediately after use with polyurethane thinners. Once hardened, the product may only be removed mechanically.

## 5- PACKAGING

AKFIX PU BINDER 303 is packaged in 220 kg drums.

## 6- STORAGE AND SHELF LIFE

Shelf life of the unopened original packaging is 9 months from manufacturing date. Material should be stored in a tightly closed container. AKFIX PU BINDER 303 must be protected against moisture. Keep at a temperature between 10°C-30 °C for quality reasons.

## 7- TECHNICAL PROPERTIES

DATAS	
Chemical structure	MDI Prepolymer
Appearance	Clear
Solid content	100 %
Density	1,14 gr/cm <sup>3</sup>
Viscosity	4000-4500 cps
Pot life	250 min
Ready for foot traffic	24 hrs
Complete cure	7 days
Application temperature	+10-30 °C

## 8- SAFETY

Corrosive and irritating to eyes, skin and lungs. Harmful if swallowed. May be aggravating to asthma, bronchitis, skin allergies and eczema. Wear chemical resistant gloves and eye protection when in contact. Keep container tightly closed when not in use. Please refer SDS for safety information.