



## **AKFIX PU BINDER 503**

### **1 – DESCRIPTION**

**AKFIX PU BINDER 503** is a one component, solvent free, transparent aliphatic polyurethane binder. It is a moisture curing binder for binding of stones and mineral aggregates to form self-draining flooring. **AKFIX PU BINDER 503** formulated to be used indoors or outdoors applications as stone carpet.

### **2 – PROPERTIES**

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

### **3 – APPLICATIONS**

- Binder for quartz and stone carpet floors
- Decorative coatings in external areas, such as terraces and balconies.
- 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 503** 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 503 is packaged in 20 kg cans and 205 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 503 must be protected against moisture. Keep at a temperature between 10°C-30 °C for quality reasons.

## **7- TECHNICAL PROPERTIES**

DATAS	
<b>Appearance</b>	Clear
<b>Solid content</b>	100 %
<b>Density</b>	1,02 gr/cm <sup>3</sup>
<b>Viscosity</b>	1300-1500 cps
<b>Pot life</b>	240 min
<b>Ready for foot traffic</b>	48 hrs
<b>Complete cure</b>	7 days
<b>Application temperature</b>	+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.