



## **AKFIX EM 800 WATERGUARD (COOL ROOF)**

### **1 – DESCRIPTION**

**Akfix EM 800 Waterguard** is a one component, cold applied, water based, modified polyurethane dispersion based elastic waterproofing membrane.

### **2 – PROPERTIES**

- Ready to use
- High elasticity
- High UV stability
- Can be easily applied with airless spray gun, roller or brush
- Low labor cost
- Does not contain solvent, can be diluted with water
- Water vapor permeable
- Maintains elasticity even at low temperatures
- Over paintable
- High opacity
- Seamless application
- High solar reflectance
- High resistance to dirt pick-up for long term solar reflectivity

### **3 – APPLICATION AREAS**

- Waterproofing of exposed roofs in both new construction and refurbishment
- For reflective coating to enhance energy efficiency
- Suitable for metal, concrete, brick, stone, wood, asphalt and bitumen surfaces

### **4 – INSTRUCTIONS**

- Ensure that the surfaces to be waterproofed are clean, dry and free from grease.
- Loose friable material must be completely removed from the surface by mechanical means
- Prior to application, mix Akfix EM800 Waterguard to achieve a homogeneous mixture
- Prior to waterproofing, detailing work should be completed. Waterproofing of details could be made by undiluted Akfix EM800 Waterguard. It is recommended to use reinforcing textiles for connection lines or surfaces with cracks.
- A primer (Akfix EM800 Waterguard diluted with 10-20% water mixture) can be applied before waterproofing.
- Once the primer becomes tack free apply Akfix EM800 Waterguard in 2-4 coats required by the system (Table 1,2,3)
- Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically



**Table 1: Waiting time after priming**

Substrate Temperature	Relative Humidity	Waiting Time
+10 °C	50%	4-6 h
+20 °C	50%	2-4 h
+30 °C	50%	1-2 h

**Table 2: Dry Time for Next Layer Application**

Substrate Temperature	Relative Humidity	Waiting Time
+10 °C	50%	8-12 h
+20 °C	50%	6-8 h
+30 °C	50%	4-6 h

**Table 3: Full cure times**

Substrate Temperature	Relative Humidity	Full cure Time
+10 °C	50%	5-7 days
+20 °C	50%	4-6 days
+30 °C	50%	2-4 days

## 5- STORAGE AND SHELF LIFE

12 months if stored properly in its original package between +5 °C and 25 °C in a dry environment and protected from direct sunlight.

## 6- RESTRICTIONS

- It should not be applied in case of risk of rain or frost.
- Prevent applied waterproofing layer from rain or frost for at least 24 hours
- Not suitable for pressurized water
- Drying times provided are approximate values and could be affected by applied thickness, outside temperature and surface humidity. Low temperature and high humidity retard curing, while high temperatures and low humidity accelerate drying process.



# TECHNICAL DATA SHEET

# Akfix® coating

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## 7- SAFETY & DISPOSAL

Check MSDS guidelines for disposal and further information concerning safety.

## 8- TECHNICAL FEATURES

<b>Chemical Basis</b>	: Modified polyurethane dispersion	
<b>Solid Content (by weight)</b>	: 63-66%	
<b>Density</b>	: 1,35 ± 0,03 g / ml	
<b>Consistency / Color</b>	: Liquid / White	
<b>PH</b>	: 8-9	
<b>Tensile Strength</b>	: Approx. 1,5 N/mm <sup>2</sup>	DIN 53504
<b>Elongation at break</b>	: Min. 150 %	DIN 53504
<b>Viscosity</b>	: 5000-15000 cp (20°C.S.No:05)	
<b>Consumption</b>	: 1,0-2,0 kg/m <sup>2</sup> (primer+2 coats application)	
<b>Reflectivity,%</b>	: 85±0,5	
<b>Application Temperature</b>	: +5°C ile +35°C	
<b>Ambient Temperature</b>	: +5 °C ile +35°C	
<b>Substrate Moisture Content</b>	: < 6 %	

## 9- PACKAGING

Product Type	Volume
White (Plastic Pail)	5 kg, 20 kg

## DISCLAIMER



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