



## **AKFIX PRIMER 80WG**

### **1 – PRODUCT DESCRIPTION**

**Akfix PRIMER 80WG** is a two component, low viscosity moisture tolerant epoxy based, solvent free surface preparation primer which is especially developed as a damp concrete penetrating primer before coating applications. Because of its special formulation, this primer can be applied at sub-zero surface temperatures.

### **2 – FEATURES**

- Excellent adhesion to damp concrete surfaces.
- Easy application
- Perfect resistance to water, freeze, humidity and harsh weather conditions.
- Can be used indoor and outdoor applications.
- Economical

### **3 – APPLICATION AREAS**

- It can be used before polyurea, polyurethane and epoxy coating applications for humidity and water vapor prevention on damp concrete surfaces.
- To avoid osmosis bubbles that formed via the effect of the pressure from the negative side.

### **4– SURFACE PREPERATION AND APPLICATION**

- Surface must be dry, clean and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder adhesion.
- Surface must be firm and have enough strength. If in doubt, apply a test area before beginning.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- All dust, loose and friable particles should be removed from the surface before application with brush and/or vacuum cleaner.
- A and B components should be thoroughly mixed for 3-4 minutes in order to achieve a homogenous mix using a low speed electric stirrer or other suitable equipment until a homogenous mixture has been achieved. After mixing, primer is ready for application.
- Spread the primer to the cleaned surface via a rickshaw, rub in to the surface via a liner brush with caution and press regularly and evenly with a short pile roller. Completely cover the wet primer with quartz sand (0,5–1,0 or 0,7–1,2 mm Ø). After the hardening, (before the application on the primer) sweep the non-sticked quartz sands carefully.
- Especially at hot environments, only prepare mixture amounts according to your needs. The mixture should not be held at the end of the day. Do not use it, if the product begun gelation.



	-2 °C	5 °C	12 °C	23 °C
Pot life	90 min	75 min	65 min	25 min
Surface touch	9 hr	5 hr	4 hr	1,5 hr
Walk on dry	20 hr	18 hr	7 hr	3 hr
Dry to overcoat, min.	20 hr	18 hr	7 hr	3 hr

**Table 1:** Drying –Curing Times Relative to Temperature Changes

Drying and curing times are determined under controlled temperatures and relative humidity below 80%, and at average of the DFT of the product. Surface touch is the state of drying when slight pressure with a finger does not reveal tackiness

## 5- PACKAGING

- 16 kg set
- A component: 11 kg bucket
- B component: 5kg bucket

## 6- SHELF LIFE & STORAGE

12 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 precautions on the safe handling, transportation 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- IMPORTANT

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm<sup>2</sup> compression resistance and minimum 1,5 N/mm<sup>2</sup> tensile strength.
- Applications below -2°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 4-6 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.



# TECHNICAL DATA SHEET

# Akfix® coating

Yeşilbayır Mah. Şimşir Sk. No: 22 Hadımköy - İstanbul/TÜRKİYE Tel: 0212 771 13 71 Fax: 0212 771 38 88

[www.akfixcoating.com](http://www.akfixcoating.com) - [info@akfixcoating.com](mailto:info@akfixcoating.com)

## 9- TECHNICAL PROPERTIES

<b>Basis</b>	: Two Component Epoxy Resin
Density (A+B)	: 1,26 gr/cm <sup>3</sup>
Appearance/Color	: Colorless, blurry
Open time	: 25 min (23°C 50 % R.H.)
Light foot traffic	: 4 hours (23°C 50% R.H.)
Full cure time	: 3 days (23°C 50 % R.H.)
Min. cure temperature	: -2°C
Consumption	: 0,3-0,5 kg/m <sup>2</sup>
Shore A Hardness	: 98
Adhesion force (concrete)	: >2 N/mm <sup>2</sup>
Application temperature	: -2 °C and +25 °C

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