



## AKFIX TEX 71 EPOXY COATING (TEXTURIZED)

### 1 – PRODUCT DESCRIPTION

**Akfix TEX 71**, is two part, solvent free, epoxy resin based thixotropic coating. Its special formulation provides easy to clean, anti-slip unique texturized finish.

### 2 – FEATURES & BENEFITS

- Slip Resistant
- Good abrasion resistance
- Chemically resistant
- Can be subjected to normal up to medium heavy mechanical and chemical loading
- Easy and fast application
- Easy to clean

### 3– APPLICATION AREAS

- Slip resistant coating for concrete and cement screeds
- Seal coat for broadcast coatings
- Industrial floors, storage areas and loading stations
- For production areas, storage and assembly areas or exhibition areas etc.
- Parking lots and service areas

### 4 – SURFACE PREPARATION & APPLICATION PROCEDURE

**Surface Preparation:** Careful surface preparation is essential for optimum finish and durability. The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine.

Concrete substrates must be prepared mechanically using abrasive blast cleaning and grinding to remove cement laitance and achieve an open textured surface. Weak concrete particles removed and surface defects such as holes, voids and cracks must be fully exposed. Exposed surface must be repaired and filled with one of appropriate Akfix range products.

**Priming:** After proper surface preparation, prime all surfaces with a suitable primer (choose primer based on moisture content of substrate) by using a roller, or a brush. Sprinkle dry silica sand (size 0,3- 0,5mm) evenly onto the wet primer. The consumption of the primer is around 0,3-0,5 kg/m<sup>2</sup>.



# TECHNICAL DATA SHEET

# Akfix® coating

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**Mixing:** Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. Over mixing must be avoided to minimize air entrainment. The prepared mixture is left to stand for a short time in order to remove air bubbles.

**Application Method:** Prior to application +10°C (min) and +35°C (max) ambient temperature must be confirmed. Application should not be carried out when humidity exceeds 90%, or when the surface to be coated is less than 3°C (5°F) above the dew point. Akfix Texturized Epoxy Coating should be spread evenly using a special textured roller for the application of slip resistant finish. A seamless finish can be achieved if a “wet” edge is maintained during application.

**Important:** Application on wet and frozen surfaces should not be done. Precautions should be taken in areas exposed to water from the negative side or water vapor. Substrate moisture content and also adherence should be checked before application. Epoxy based products have limited working time. Pot life and curing time will be shorter at high temperatures and also will be longer at low temperatures. Especially in hot environments, mixture should be applied immediately and should not be left in the mixture box. The mixture that started to gel should not be applied to the surface. Mixture other than the specified mixture ratio should not be done.

## 5- PACKAGING

Component A: 21 Kg.

Component B: 3 Kg.

## 6- SHELF LIFE & STORAGE CONDITIONS

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- TECHNICAL FEATURES

### Physical Properties

	METHOD	DATAS
Mix Ratio	-	7:1
Density (Component A)	ASTM D2196-99	1,89 g/cm <sup>3</sup> (23°C)
Density (Component B)	EN ISO 2811-1	1,05 g/cm <sup>3</sup> (23°C)
Density (Mixture)	EN ISO 2811-1	1,73 g/cm <sup>3</sup> (23°C)
Pot Life	INTERNAL	50 min. (23 °C 50% R.H.)
Tack Free Time	INTERNAL	4 hours (23 °C 50% R.H.)
Foot Traffic Time	INTERNAL	24 hours (23 °C 50% R.H.)
Full Cure Time	INTERNAL	7 days (23 °C 50% R.H.)
Shore D Hardness	ASTM D2240	80 ( After 7 days)
Adhesion strength	ASTM D 4541	>3 N/mm <sup>2</sup> (concrete)
Compression strength	EN 196-1	>60 N/mm <sup>2</sup>
Application Temperature	-	+10 °C-35°C



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## Chemical Resistance Properties

Chemical Name	Result
Sulfuric Acid (10%)	5
Sulfuric Acid (20%)	5
Hydrochloric Acid (10%)	5
Hydrochloric Acid (20%)	5
Nitric Acid (10%)	5
Acetic Acid (10%)	3
Chromic Acid	1
Hydrofluoric Acid (10%)	5
Phosphoric acid (20%)	5
Diesel	5
Gasoline	3
Ammonium Hydroxide (20%)	5
Potassium Hydroxide (20%)	5
Sodium Hydroxide (50%)	5
Brake Fluid	3
Drinking Water (1mg/L chlor)	5
Hydrogen Peroxide (3%)	5
Mineral oil	5
Hydraulic oil	5
Engine oil	5
Toluene	2
Methanol	2
Ethanol (10%)	2
Acetone	2
MEK	1
Diethyl Ether	3
Xylene	2

\*These tests were done by dipping into chemicals for 6 months.

5: RESISTANT 4: RESISTANT. ONLY COLOR CHANGE 3. SWELLING 2: CONDITIONS (SHORT-TERM DISCRIMINATION) 1: NOT RECOMMENDED

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