



AKFIX PRIMER M80 EPOXY FOR METAL

1 – PRODUCT DESCRIPTION

Akfix Primer M80 is a two component, epoxy based primer with excellent corrosion protection properties for use on metal surfaces. It has high structural strength, abrasion and chemical resistance.

2 – FEATURES

- Excellent adhesion to metal surfaces
- Protect metal from corrosion
- Resistant to acids, bases, oils, gasoline, solvents and salt water
- Perfect resistance to water, freeze, humidity and harsh weather conditions
- Easy application
- Can be used indoor and outdoor applications
- Long working time and pot life

3 – APPLICATION AREAS

- Akfix Primer M80 designed as an anticorrosive & anti-rusting primer on iron and steel substrates prior to the application of waterproofing membranes and coatings.
- Application examples include protection of silos, steel bridges, fences, metals roofs, pipes, reinforcement bars etc.

4 – SURFACE PREPERATION AND APPLICATION

Substrate: All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination that might impair adhesion. According to the nature of the substrate, it should be prepared by brushing, grinding, sand blasting, etc. Following this, the surface should be cleaned from dust. Application of primer must be completed before an oxide layer is able to form.

Mixing of the components: Components A (resin) and B (hardener) are packed in two separate containers, having the correct predetermined mixing proportion by weight. The whole quantity of component B is added into component A. Mixing of the 2 components should take place for about 5 minutes, using a low revolution mixer (300 rpm). It is important to stir the mixture thoroughly near the sides and bottom of the container, to succeed uniform dispersion of the hardener. Keep the mixing head submerged to avoid entrapping air.

Application: It is applied in one or two coats by roller, brush or spray. The second layer follows after the first has dried, but within 24 hours.



5- PACKAGING

24 kg set

A (resin): 20 kg and B (hardener): 4 kg

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- TECHNICAL FEATURES

Basis	: Two Component Epoxy Resin
Appearance/Color	: Colorless, blurry
Density (A+B)	: 1,47 gr/cm ³
Viscosity (A+B)	: 480 cps (25 °C)
Open time	: 2 hours (23 °C 50 % R.H.)
Light foot traffic	: 12-18 hours (23°C 50% R.H.)
Full cure time	: 7 days (23 °C 50 % R.H.)
Min. cure temperature	: +8°C
Application temperature	: +15 °C and +30 °C
Consumption	: 0,3-0,5 kg/m ² /layer
Recoat time	: 3-24 hours
Shore A Hardness	: 95
Adhesion force (steel)	: > 3 N/mm ²
Corrosion protection	: Pass (2000 hours, ASTM B-117)



9- IMPORTANT

- The workability of epoxy materials is affected by their temperature. For best performance the ideal temperature of application is between +15°C and +30°C. Application temperature below +15°C will expand the curing time and temperature above +30°C will accelerate the curing time and will shorten the open time.
- The temperature of the substrate must be at least 3 °C above the dew point both during the application and for at least a further 24 hours
- This product contains solvent. In cases of application in closed rooms, measures should be taken for good ventilation.
- Epoxy layers should be protected from moisture for 4-6 hours after application.
- Be careful about product mixing ratios.
- All application tools and equipments should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.