

# ALPHAGAM

## TECHNICAL DATA SHEET

---

PRIMER

APP10010 2K EPOXY MIO  
RED BROWN PRIMER TDS

## **2K EPOXY MIO RED BROWN PRIMER**

Product Code: APP10010

### **PRODUCT INFO**

Two component amine cured epoxy coating. It is a fast drying, micaceous iron oxide (MIO) lamellar pigmented, high solids, high build coating product. Its special formulation supplies as an excellent barrier effect which protects steel and concrete in highly aggressive environments (ISO 12944). **APP10010** provides a very high productivity due to its fast curing, which allows quick handling, its capability to be applied even under severe conditions (temperature and humidity) and its quick and easy for spray application

**Approx. Coverage: 5 - 6 m<sup>2</sup>/l at 60 - 80 μm DFT**

### **FEATURES**

- ✓ Can be used as a primer, intermediate coating or top coat over steel and concrete.
- ✓ Very easy application by airless spray, brush or roller compared to other epoxy coatings.
- ✓ Fast curing and drying, even at low temperatures or at high humidity conditions.
- ✓ Can be applied over several aged coatings.
- ✓ Long-term over coating with itself or different 2K products.
- ✓ Good chemical resistance to splatters from water and mild chemicals.
- ✓ Excellent flexibility and hardness.
- ✓ Direct application over inorganic zinc silicates.

### **RECOMMENDED USE**

- ✓ To be used both indoors and outdoors in workshops, new construction and maintenance of tanks, pipes and any other steel structure.
- ✓ As an intermediate coating within great anticorrosion protection systems for highly aggressive industrial and marine environments (ISO 12944: C4 and C5).
- ✓ Can be used in immersed systems.
- ✓ As a tie-coat or sealer for zinc rich primers (diluted and applied at thickness between 40-60 microns).
- ✓ Applicable over concrete.

## **2K EPOXY MIO RED BROWN PRIMER**

Product Code: APP10010

### **SURFACE PREPARATION**

**APP10010** is usually applied over an epoxy or inorganic silicate primer, clean, dry, and free from salts, grease and any other contaminant (preparation according to ISO 8504).

- ☑ **Over zinc primers:** surface must be dry and free from salts and other contaminants. Apply highly diluted.
- ☑ **Over workshop primers:** clean up to St3 or St2 grade (ISO 8501/1). Use brushes and mechanical tools.
- ☑ **Steel:** abrasive blasting up to Sa 3 or Sa 2½ grade (ISO 8501/1 or SSPC-SP-10) with a roughness profile of Rz>35 microns, obtained with the adequate form and size of the abrasive to reach such a profile.
- ☑ **Galvanized steel:** degreasing, fresh water washing and Zn salts removing. Light blasting using thin abrasive (ISO8504).

### **APPLICATION INSTRUCTIONS**

**APP10010** is supplied as a two containers set that must be mixed for the application.

- ☑ Homogenize the Base (component A) using mechanical stirring, checking there is no pigment remaining on the bottom of the cans. Add all the Hardener (component B) to the Base and stir mechanically until a homogenized mixing has been achieved.
- ☑ Adjust viscosity, if needed, using only our recommended thinners. A thinner excess may cause sagging, so the product should always be above 15°C (to ensure a correct viscosity).
- ☑ No induction time needed before application.
- ☑ A proper ventilation must be supplied during application, especially indoors, in order to facilitate solvent evaporation and film curing.
- ☑ Wash all equipment and tools immediately after application, using recommended cleaning thinner. Do not let mixed product inside hoses, spray guns or equipment.

## 2K EPOXY MIO RED BROWN PRIMER

Product Code: APP10010



### Application Method

Application method	Pressure/bar	Nozzle/mm	Spray Passes	Thinner (%)
Gravity spray gun (high pressure)	1.6 - 2	1.3 - 1.8	2 - 3	0 - 25
HVLP (low pressure)	1.6 - 2	1.3 - 1.8	1 - 2	0 - 25
Airmix / Airless	100 - 120	0.23 - 0.33	1 - 2	0 - 5
Brushing, Rolling	-	-	-	0 - 5



**Pot life :**  
4 - 6 hrs @ 30 °C



**Hardener:**  
1-UP 2K PU Epoxy Hardener @ 30 °C



**Thinner:**  
1-UP 2K PU Epoxy Thinner at 0-25%



**Drying time :**


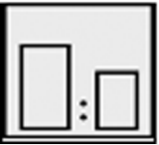

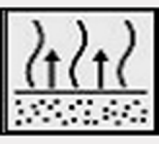

Object temperature	Dust Dry/min	Set to touch	Ready for assembly	Sandable	Recoatible
30°C	10 min	NA	NA	8 h	30 min
60°C	30 min	NA	NA	12 h	1 h

This data sheet is for information purpose only. To our knowledge the data provided complies with the latest standard and is based on years of experience in the manufacture of our products. However the data is not binding and without warranty. Please follow recommendations stated on the relevant precautions stated on the product label. We reserve our right to make additions, deletions or modifications to the information at any time without prior notification.

**2K EPOXY MIO RED BROWN PRIMER**

Product Code: APP10010

**Technical Information**

	<b>Colour :</b> <b>Red Brown</b>
	<b>Mixing Ratio :</b> <b>4 : 1</b>
	<b>Spraying Viscosity :</b> <b>22 – 25 sec 4 mm DIN</b>
	<b>Flash Off Time :</b> <b>5 - 8 min. between coats</b> <b>10 - 15 min. before oven drying</b>
	<b>Dry Coat Thickness :</b> <b>60 - 80 µm (primer filler)</b>
<b>Storage :</b>	1year from the date of manufacturing at 30°C, if stored in a dark / dry place in a tightly closed container.
<b>Processing Conditions :</b>	From +10°C and up to 80% relative air humidity. Ensure an adequate air ventilation.