



Technical Data Sheet

HUMIDUR[®]ML Solvent Free Epoxy Coating

Description

Humidur[®]ML is a two-pack, solvent free polyamine cured epoxy system with outstanding rust resisting capacities. Binding agents contain modifying components, thus ensuring excellent adhesion of the coating to the substrate. Pigmentation consists of specially developed abrasion resistant extenders and colouring pigments. High molecular weight elastifiers are added to provide for sufficient flexibility. The resulting composition combines excellent adhesion, abrasion and impact resistance, and is at the same time hydrophobic. Thus enabling the product to cure at low temperatures, even while immersed. It can be exposed to water immediately after application.

Composition

Humidur[®]ML is a two-component system. Both the A and B component are delivered predosed in separate packaging. The base or A component contains non-crystallizable epoxy resins, high-tech modifying agents, elastifiers, lamellar abrasion and impact resistant fillers, and colouring pigments. The B component contains the polyamine hardener complex.

Application

Humidur[®]ML is an efficient and proven solvent free anti-corrosion coating designed to protect steel as well as concrete structures from corrosion. **Humidur[®]ML** can be applied in one single layer up to thicknesses of 1 mm, depending on ambient temperature, using high-pressure airless spraying equipment. Overcoating if necessary can be done immediately on top of the previous clean **Humidur[®]** coat and does not need to be preceded by whipblasting. Adhesion onto the substrate as well as interadhesion between layers is excellent, even when cured at low temperature and high humidity. **Humidur[®]ML** is highly resistant to mechanical wear and immersion in mild chemicals and polluted waters. Since **Humidur[®]ML** can be 100% decontaminated, it is also suited for use in nuclear power plants.

Humidur[®]ML is also used for the protection against bottom plate corrosion in storage tanks for gasoline, kerosene, ...

Important

This coating system should not be thinned

Specific Data

- Density @ 23°C
 - base..... $\pm 1,46 \text{ g/cm}^3$
 - hardener..... $\pm 1,14 \text{ g/cm}^3$
 - mixture..... $\pm 1,40 \text{ g/cm}^3$
- Solid content..... 100%
- Recommended minimum dry film thickness 600 microns
- Flash Point
 - should be considered per application area.
 - mixture..... over 100°C
- Pot life
 - @ 23°C..... 45 mins
 - @ 30°C..... 35 mins
- Covering capacity
 - theoretical @ 300 μ $\pm 0,42 \text{ kg/m}^2$
 - theoretical @ 400 μ $\pm 0,56 \text{ kg/m}^2$
- Viscosity @ 23°C @ CSS750Pa
 - mixture..... $5 \pm 1 \text{ Pas}$
- Mixing ratio A:B
 - by weight..... 5 : 1
 - by volume..... 3,9 : 1
- Min. overcoating time wet-in-wet
- Colours..... 25 different shades
- Shelf life..... 12 months in unopened pails stored at max. 25°C in a dry place.
- Thinning..... Adding thinner and/or diluants is under any circumstances **strictly forbidden**.