



# Technical Data Sheet

## HUMIDUR<sup>®</sup>E Solvent Free Epoxy Coating

### Description

**Humidur<sup>®</sup>E** 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<sup>®</sup>E** 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<sup>®</sup>E** is an efficient and proven solvent free anti-corrosion coating designed to protect steel from corrosion. **Humidur<sup>®</sup>E** can be applied in one single layer up to thicknesses of 500 µm, depending on ambient temperature, using high-pressure airless spraying equipment. Adhesion onto the substrate is excellent, even when cured at low temperature and high humidity. **Humidur<sup>®</sup>E** is highly resistant to mechanical wear and immersion in mild chemicals and polluted waters. Since **Humidur<sup>®</sup>E** is faster curing than Humidur<sup>®</sup> ML and Humidur<sup>®</sup> ME and therefore a plural component spray pump needs to be used.

### Specific Data

- Density @ 23°C
  - base*..... ± 1,50 g/cm<sup>3</sup>
  - hardener*..... ± 1,12 g/cm<sup>3</sup>
  - mixture*..... ± 1,41 g/cm<sup>3</sup>
- Solid content..... 100%
- Dry Film Thickness
  - should be considered per application area*
  - max. in 1 layer*..... 500 microns
- Flash Point
  - mixture*..... over 120°C
- Covering capacity
  - theoretical @ 300 µ* ± 0,42 kg/m<sup>2</sup>
  - theoretical @ 400 µ* ± 0,56 kg/m<sup>2</sup>
- Mixing ratio A:B
  - by weight*..... 4,04 : 1
  - by volume*..... 3 : 1
- Min. overcoating time wet-in-wet
- Colours..... 25 different shades
- Shelf life..... 1 year in a dry place
- Thinning..... Adding thinner and/or diluants is under any circumstances **strictly forbidden**.
- Potlife ..... - unlimited with use of plural component spraying equipment  
- for 500 grams A + B = max. 10 minutes
- Curing time touch dry in 1,5 hours
- Shore D > 74

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#### Important

**This coating system should not be thinned**

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*The present edition of this technical data sheet replaces all previous ones. Specific data have been drawn up as accurately as possible and are based on our knowledge regarding the above mentioned product on 11/10/2010. For more information, please contact : Acotec NV, Industrielaan 8, Zuid III, 9320 Aalst (Erembodegem), Belgium Tel. +32/53 83 86 60 Fax +32/53 83 69 88*