

# Technical Data Sheet

Humidur® TC - Topcoat



## Product Description

Humidur TC is a 2-component solvent-free epoxy siloxane hybrid topcoat offering the following benefits:

- **Excellent gloss and colour retention**
- **UV-resistant**
- **Environmentally friendly** (100% solids, no solvents, no VOC's, no heavy metals, no isocyanates)
- **High weather resistance**
- **Excellent impact resistance**
- **Outstanding adhesion** to substrate

## Manufacturer's Information

Acotec nv, with registered offices at Aalst, Belgium, is the developer and sole manufacturer of the Humidur products, distributed worldwide through a wide network of agents and cooperative companies. Contact Acotec directly or visit [www.acotec.be](http://www.acotec.be) or [www.humidur.be](http://www.humidur.be) for reference projects.

## Composition

Humidur TC consists of two components:

A is the base component and contains:

- the epoxy siloxane resin,
- lamellar abrasion resistant fillers,
- Impact resistant fillers
- colouring pigments

B is the hardener and contains:

- Aminosilane hardener complex

The application of Humidur TC can be done using airless spray, gravity feed spray gun, brush or roller.

**Acotec nv**

**LET'S FACE CORROSION**

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Date: 19/02/2015

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## Recommended Use

Humidur TC is generally applied on top of epoxy coatings and on top of concrete for esthetic reasons, for its high weather and UV resistance. Apply Humidur TC on top of Humidur ME, E and FP when a durable high grade and colour stable finish is required.

Opposed to the other Humidur coatings, Humidur TC cannot cure under water.

## Product Data

SPECIFIC DATA		Humidur TC
<b>Density @ 23°C</b>	Component A	± 1,500 g/cm <sup>3</sup>
	Component B	± 0,985 g/cm <sup>3</sup>
	Mixture A + B	± 1,414 g/cm <sup>3</sup>
<b>Solid content</b>		100%
<b>Viscosity of the mixture at 23°C and CSS750Pa</b>		3 ± 1 Pas
<b>Flash point mixture A + B</b>		>90°C
<b>Hardness</b>		Shore D > 80
<b>Colour</b>		Any RAL colour 25 colours immediately deliverable
<b>Minimal film thickness in one layer</b>		60 µm
<b>Maximum film thickness in one layer</b>		100 µm
<b>Covering capacity (WFT = DFT)</b>	<b>Theoretical @ 60 µm</b>	0,086 kg/m <sup>2</sup>
	<b>Theoretical @ 100 µm</b>	0,144 kg/m <sup>2</sup>
<b>Mixing ratio A : B</b>	By weight	7,6 : 1
	By volume	5 : 1
<b>Overcoating time</b>		4 - 48 hours
<b>Standard packaging</b>		5 kg
<b>Pot life at 23°C</b>		2 hours
<b>Shelf life max 25°C dry</b>		12 months



## Curing time

The curing times depend on air circulation, temperature and the film thickness. The touch dry time at 23°C is 4 hours and full cure is achieved after 3 days at this temperature. These values are indicative.

Opposed to the other Humidur coatings, Humidur TC does not have the ability to cure under water.

## Surface preparation

Substrate	Cleanliness	Roughness
Coating	Remove all grease, dirt, any other contamination, and moisture	Orbital electric sander or abrasive paper 120 –180 grade
Concrete	Remove all grease, dirt, any other contamination, and moisture	60-120 grade Orbital electric sander or abrasive paper Sweep blasting

## Application

APPLICATION PARAMETERS	TC
Temperature before mixing	20°C - 25°C
Application temperature of mixture	20°C - 25°C
Surface temperature	Minimum > 0°C and > DPT + 3°C
	Maximum 50°C
Humidity	Relative Humidity < 95%
	Surface No condensation
Spray nozzle	Opening 0,009” - 0,019”
	Angle 30° - 50°

## Environment

Humidur TC has been designed to fully respect the environment. The product contains:

- No VOC (0%) (100 % solids), no solvents or diluents (WFT = DFT),
- No isocyanates,
- No heavy metals.