



24-08-2020 / REVISION 02

HUMIDUR.

Technical Data Sheet

Humidur® TC

ACOTEC N.V.

Industrielaan 8 Zuid III

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Product Description

Humidur TC is a two-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 iso-cyanates)
- High weather resistance
- Excellent impact resistance
- Outstanding adhesion to substrate

Composition

Humidur TC consists of two components:

A is the base component and contains:

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

B is the hardener and contains:

- Amino-silane hardener complex

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

Recommended Use

Humidur TC is generally applied on top of epoxy coatings and on top of concrete for aesthetic 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.

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. The proven lifetime of the Humidur coatings in practice is more than 30 years. Contact Acotec directly or visit www.humidur.be for reference projects.

Product Data

SPECIFIC DATA		Humidur TC
Density @ 23 °C	Component A	± 1,270 g/cm ³
	Component B	± 0,985 g/cm ³
	Mixture A + B	± 1,230 g/cm ³
Solid Content		100 %
Viscosity of the mixture at 23 °C and CSS750Pa		3 ± 1 Pas
Flash point mixture A + B		> 90 °C
Hardness		Shore D > 80
Colour (gloss)		Any RAL colour 25 colours immediately deliverable
Minimum film thickness in one layer		60 µm
Maximum film thickness in one layer		100 µm
Covering capacity (WFT = DFT)	Theoretical @ 60 µm	0,074 kg/m ²
	Theoretical @ 100 µm	0,123 kg/m ²
Mixing ratio A : B	By weight	7,6 : 1
	By volume	5,9 : 1

Product Data

SPECIFIC DATA	Humidur TC
Overcoating time	4 – 48 hours
Standard packaging / set	4 kg or 16 kg
Pot life @ 23 °C	2 hours
Shelf life max 25 °C dry	18 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.

	10 °C	15 °C	20 °C	25 °C	30 °C
Touch-dry	6 hours	5 hours	4 hours	3,5 hours	3 hours
Full cure	5 days	4 days	72 hours	48 hours	36 hours

Surface Preparation

All surfaces shall be free of oil, grease, dust or any other contamination prior to coating.

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	Orbital electric sander or abrasive paper 60-120 grade Sweep blasting

Application

APPLICATION PARAMETERS	Humidur 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
Surface temperature* Maximum	50 °C
Humidity* Relative Humidity	< 95 %
Humidity* Surface	No condensation
Spray Nozzle opening	0,009" – 0,019"
Spray Nozzle Angle	30° – 50°

* These criteria are valid to achieve the most durable protection. If a reduced coating lifetime is desired, application can continue outside this window. The existing warranties do not apply in these conditions. Please contact Acotec NV directly for more information on the expected lifetime in these conditions.

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.

Important note

The English version of the Technical Data Sheet takes precedence over other languages. The latest version of the Technical Data Sheet can be found on our website www.humidur.be. Should there be any discrepancies between this document and the document online, the online document takes precedence.

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