

CONIPUR TC 458

UV and weather resistant top coat

DESCRIPTION

Conipur TC 458 is a low solvent, pigmented, single component, moisture curing, UV and weather resistant, protective top coat. It is based on high quality aliphatic polyurethane prepolymers. Unlike conventional moisture curing polyurethane coatings, **Conipur TC 458** can be applied at high thicknesses without foaming. **Conipur TC 458** is fire retardant.

RECOMMENDED FOR

Conipur TC 458 has a number of applications including the top coat in some Conideck car park deck coating systems, slip resistant top coats for roofing applications and in balcony waterproofing.

FEATURES AND BENEFITS

- Excellent UV and weather resistance
- Ready for traffic in 48 hours
- Highly elastic
- Excellent abrasion resistance
- Can be applied at high thicknesses without foaming
- Fire retardant
- Single component – no mixing
- Easy to apply

TECHNICAL DATA

Density		g/cm ³	1.3
Solid content		%	60
Viscosity	at 23°C	mPas	1000
Re-coating interval	at 10°C	h	min. 8
		d	max. 3
	at 20°C	h	min. 5
		d	max. 2
	at 30°C	h	min. 4
		d	max. 1.5
Full cure	at 23°C / 50% RH	d	5
Permissible ambient and substrate temperature		°C	min. 5 max. 30
Permissible relative humidity		%	min. 40
		%	max. 90

The above figures are guide values and should not be used as the basis for specifications.

Technical data cured material

Tensile strength	DIN 53504	N/mm ²	4.5
Elongation	DIN 53504	%	200
Fire resistance	DIN 4102 Pt 1	Class B2	

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APPLICATION

Substrate pre-treatment

The coating to which **Conipur TC 458** is applied should be clean and dry and free from oil and grease and any other substances which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied.

If being applied on a polyurethane membrane without broadcast aggregate and application occurs after the re-coating interval, membrane should be reactivated using **Mastertop P679**.

Conipur TC 458 is a single component material. Prior to application, the temperature of the material should be in the range of 15–25 °C. Some settling of the pigments may occur on standing. **Conipur TC 458** should, therefore, be well stirred before use. **Conipur TC 458** should be spread evenly with a squeegee followed by back rolling.

The curing time of the material is influenced by the humidity and the ambient and substrate temperatures. At low humidity and low temperatures, the chemical reaction is slowed down; this lengthens the curing time and the re-coating intervals. At high humidity and high temperatures the chemical reaction is accelerated thus the time frames mentioned above are shortened accordingly.

Following application the material should be protected from direct contact with water for approx. 5 hours. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least 5 hours after the application (at 15 °C).

ESTIMATING DATA

Conipur TC 458 is normally applied at 0.4 – 0.8 kg/m².

CLEANING

Re-usable tools must be cleaned carefully with **Cleaner 40**.

PACKAGING

Conipur TC 458 is supplied in 24kg pails.

COLOURS

- Standard colours are available
- Special colours to order

STORAGE

Store in original pack under dry conditions and a temperature ranging from 15-25°C. Do not expose to direct sunlight.

SHELF LIFE

Conipur TC 458 has a shelf life of 6 months in its original packing.



The Chemical Company

CONIPUR TC 458

PRECAUTIONS

Conipur TC 458 is physiologically non-hazardous in its cured condition.

The following protective measures should be taken when working with the material.

Wear safety gloves, goggles and protective clothing. Avoid inhaling the fumes and contact with the skin. When working with the product, do not eat, smoke or work near a naked flame.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

EU Regulation 2004/42 (Decopaint Guideline)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC limit (Stage 2, 2010) According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / I is 500 g/l (Limit: Stage 2, 2010). The VOC content for **Conipur TC 458** is < 500 g/l (for the ready to use product).

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STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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