

# MasterSeal<sup>®</sup> TC 640

## Aliphatic single component polyurethane topcoat

### DESCRIPTION

**MasterSeal TC 640** is a single component solvent containing, pigmented, polyurethane topcoat for UV protection of polyurethane membrane **MasterSeal M 640**.

### RECOMMENDED USES

**MasterSeal TC 640** is used for UV protection of certified **MasterSeal M 640** membrane in exposed applications.

### FEATURES AND BENEFITS

- **Suitable for exposed applications**- Excellent UV and weather resistance
- **Fast Curing** -Ready for traffic in 48 hours
- **Crack bridging** - Highly elastic
- **Fire retardant** – will not support fire
- **Single component** – no mixing
- **Easy to apply** – only rollers required

### PERFORMANCE DATA

Tensile strength (N/mm <sup>2</sup> ) (DIN EN ISO 527)	3.5
Elongation (%) (DIN EN ISO 527)	200
Tack free / Rain Safe @ 20°C	2 hrs
Open to Pedestrian Traffic	12 hrs
Reaction to Fire * (ETAG 005 – Part 6)	Class E
Water Vapor Diffusion Resistance * (ETAG 005 – Part 6)	1830
* Performance determined as a system along with <b>MasterSeal M 640</b>	

### PROPERTIES

Density (g/cm <sup>3</sup> )	1.13	
Solid content (%)	55	
Re-coating interval	Min.	Max.
at 20°C	4 Hrs	6 Days
Full cure @ 23°C/50% RH	7 Days	
Permissible Temperature		
Ambient	5°C	35°C
Substrate	5°C	35°C
Permissible Rel. Humidity	40%	90%

### APPLICATION

#### Substrate pre-treatment

The coating to which **MasterSeal TC 640** 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.

**MasterSeal TC 640** 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. **MasterSeal TC 640** should, therefore, be well stirred before use. **MasterSeal TC 640** should be spread evenly with a squeegee followed by back rolling with a short hair roller.

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).

The product must not be applied when the temperature is below +5°C or above 35 °C. Do not mix solvents, sand or other products that could affect the products properties must not be added. High humidity during hardening can affect final appearance, specially gloss.

**MasterSeal TC 640** can be broadcasted with dry silica sand to provide a hard wearing, slip resistant finish.

#### ESTIMATING DATA

**MasterSeal TC 640** is normally applied at 0.15 – 0.2 kg/m<sup>2</sup>. These consumptions are theoretical and can vary according to application consumptions. It is essential to carry out representative trials on site to evaluate the exact consumption

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## PACKAGING

MasterSeal TC 640 is supplied in 20kg pails.

## COLORS

MasterSeal TC 640 is available in following standard colours.

Red, White and Grey

## SHELF LIFE

MasterSeal TC 640 has a shelf life of 9 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

## PRECAUTIONS

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 Material Safety Data Sheet (MSDS) from our office or our website.

MAP#MasterTop 640 TC v1-0916

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