

MasterSeal® TC 640 (Eski Adı Masterseal® 640 Topcoat)

Aliphatic, UV Resistant Single Part Polyurethane Topcoat for MasterSeal® System

DESCRIPTION OF PRODUCT

MasterSeal® TC 640 is a single part, polyurethane based finishing topcoat for UV protection of polyurethane membranes.

FIELDS OF APPLICATION

MasterSeal® TC 640 is recommended for:

- UV protection for exposed applications.
- For certified systems using **MasterSeal® TC 640**.
- Top Coat for MasterSeal Roof systems.

Contact the Technical Service of your local Master Builders Solutions office regarding any application required not mentioned here.

FEATURES AND BENEFITS

- Single part product that allows simple application without the need of mixture.
- Easy application by brush and roller.
- Excellent adhesion.
- UV resistant. Colour stability.
- Fast Curing.
- Frost resistant.
- Withstands pedestrian traffic.

APPLICATION PROCEDURE

Preparation of Substrate

Support: MasterSeal® M 640 to which

MasterSeal® TC 640 is applied should be clean and dry and free of any substances which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied. Temperature of

the support should be minimum +5°C and maximum +35°C. The residual moisture content of the substrate must not exceed 4% (check with e.g. CM device). The temperature of the substrate must be at least 3°C above the current dew point temperature. Try to keep the temperature uniform during application and hardening.

APPLICATION

MasterSeal® TC 640 is applied, normally in two coats. Stir to homogenize. And apply homogeneously covering the substrate using a brush, a short hair roller or an air-less spray gun.

CONSUMPTION

Coverage is approximately total 0,15- 0,30 kg/ m² in one or two coats depending on traffic conditions. These consumptions are theoretical and can vary according to the application conditions. It is essential to carry out representative trials on site to evaluate the exact consumption.

WATCH POINTS

- 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.
- The product performance effect from surface and ambiance conditions.
- Do not apply on wet and damp surface.
- Not recommended for unsound substrates and thick application.

TECHNICAL DATA

| Property | Unit |
|--|---|
| Color | White - Grey |
| Density | 1,20 ± 0,05 |
| Viscosity (ISO 2811) | 500 ± 100 |
| Shore D Hardness | 40 |
| Elongation at Break | >300 |
| Tensile Strength (N/mm ²) | 30 |
| Capillary Absorption and Permeability to Water | <0,1 kg/m ² h ^{0,5} |
| QUV Accelerated Weathering Test (4h UV at 60°C) (ASTM G53) | Pass (2000 hours) |
| Application Temperature | +5 to +35 |
| Service Temperature | -40 to +90 |
| Tack free time | 6-8 hours |
| Re-coating interval | 24 hours |

The above figures are valid for 23°C and intended as a guide only and should not be used as a basis for specifications.

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CLEANING

Removal of fresh remnants from tools and application equipment can be carried out using solvent immediately after use. Hardened and/or cured material can only be removed mechanically.

PACKAGING

20 kg tin

STORAGE CONDITION

The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 5 °C and +25 °C. Higher storage temperatures may reduce shelf life of product.

SHELF LIFE

12 months from date of production

HEALTH AND SAFETY PRECAUTIONS

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları San. ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **Master Builders Solutions Yapı Kimyasalları San. ve Tic. Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

CONTACT INFORMATION

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