



The Chemical Company

MASTERSEAL[®] 640 Topcoat

Aliphatic single component polyurethane topcoat for MASTERSEAL 640 System

DESCRIPTION

MASTERSEAL 640 Topcoat is a single component, polyurethane based finishing topcoat for UV protection of polyurethane membranes.

FIELDS OF APPLICATION

MASTERSEAL 640 Topcoat is recommended for:

- UV protection of MASTERSEAL 640 membrane in exposed applications.
- For certified systems using MASTERSEAL 640 Membrane.

Contact the Technical Service of your local BASF Construction Chemicals office regarding any application required not mentioned here.

FEATURES AND BENEFITS

- Single component product that allows simple application without the need of mixture.
- Excellent adhesion.
- UV resistant. Colour stability.
- Fast Curing.
- Resistant to standing water.
- Frost resistant.
- Withstands pedestrian traffic.

TYPICAL PERFORMANCE DATA

Application temperature (support and material)	: From +5 to +35 °C
Permissible moisture on the support	: Max. 4%
Tack free time	: Approx. 60 - 120 min
Re-coating interval	: Min. 3 hours Max. 6 hours
Open to pedestrian traffic after	: Approx. 12 hours
Fully cured	: After 7 days
Service temperature	: From -20 to +80 °C
Elongation at break	: Approx. 300%
Tensile strength	: Approx. 3.5 MPa
Adhesion	: > 2.5 N/mm ² (cohesive failure)

Hardening times are measured at 22°C and 65% R.H. Higher temperatures and/or higher R.H. can shorten these times, and vice versa.

The technical data provided are the outcome of statistical results and do not represent guaranteed minima.

APPLICATION

Application method

(a) Support: MASTERSEAL 640 Membrane to which MASTERSEAL 640 Topcoat 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.

(b) Application: MASTERSEAL 640 Topcoat 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. After maximum 6 hours apply the second coat.

MASTERSEAL 640 Topcoat can be broadcasted with dry silica sand to provide a hard wearing, slip resistant finish.

For best performance:

- 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.

CLEANING

While still wet with solvent (e.g. solvent naphtha). Once cured it can only be removed mechanically.

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ESTIMATING DATA

Approximately 100 to 150 grams per square metre are required per coat.

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.

PACKAGING

MASTERSEAL 640 Topcoat is available in 20kg pails.

Colour: White, grey and red.

SHELF LIFE

Store in cool and dry warehouse conditions. Shelf life in these conditions is 9 months in unopened original containers.

PRECAUTIONS

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed.

For Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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