

MasterSeal® 640

Flexible and elastic single component polyurethane waterproofing membrane

DESCRIPTION

MasterSeal 640 Membrane is a single component, polyurethane based, elastomeric coating for roof waterproofing

RECOMMENDED USES

MasterSeal 640 Membrane is recommended for:

- Applicable for both inside and outside use
- Can be employed on concrete and cement mortar.
- Waterproofing of roofs, balconies and terraces.

Contact your local BASF Construction Chemicals office regarding any application required not mentioned here

FEATURES AND BENEFITS

- **High elasticity and flexibility** – moves with structure.
- **Excellent adhesion to concrete and mortar.** - Fully bonded system.
- **Impermeable to water and carbon dioxide.**- protects from corrosion of the steel.
- **Easy to apply.** Single component and low viscosity.
- **Excellent crack bridging capacity** - even at low temperatures.
- **Monolithic** – no laps, welds or seams.
- **Fast Application** - Can be re-coated after only a few hours

PROPERTIES

Density :	Approx. 1.3 g/cm ³
Application temperature (support and material)	From +5 to +35 °C
Water vapour permeability :	Approx. 28 g/m ² /day
Permissible moisture of the substrate	Max. 4%
Re-coating interval :	Min. 12 hours
	Max. 36 hours

Open to pedestrian traffic after	Approx. 12 hours
Fully cured :	After 7 days
Service temperature :	From -20 to +80 °C
Crack bridging :	Up to 2mm
Elongation at break :	Approx. 650%
Tensile strength :	Approx. 6 MPa
Shore A hardness :	Approx. 65
Adhesion to concrete	: > 2 N/mm ² (concrete 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

Application method

(a) Support: All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles.

Clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.

Profile mechanically the surface by shot blasting, high pressure water jetting or other suitable mechanical preparation method.

After surface preparation the tensile strength of the substrate should exceed 1 N/mm² (check with an approved pull-off tester).

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 temperatures uniform during application and hardening

MasterSeal[®] 640

(b) Primer: Suitable primer for using MasterSeal 640 Membrane on concrete or cementitious mortar substrates is **MasterSeal P1640 Primer**. Refer to PDS for application guidelines.

(c) Mixing: MasterSeal 640 Membrane is a single component product. Does not require mixing. Homogenize with mechanical stirring before use.

(d) Application: MasterSeal 640 Membrane is applied in two coats using a brush, a short hair roller or an air-less spray gun. After minimum 12 hours and maximum 36 hours apply second layer of the **MasterSeal 640 Membrane**. If needed, apply a third layer of the **MasterSeal 640 Membrane**.

(e) Reinforcement: In joints or any singular points like wall floor connections, chimneys, pipes, etc. reinforce

MasterSeal 640 Membrane with a mat installed on the still wet material. Press it to soak, and saturate again with enough MasterSeal 640 Membrane.

(f) Top Coat: MasterSeal 640 Membrane is required when colour stable and chalk free surface is needed especially a dark final colour is desired.

Apply one or two coats of MasterSeal 640 Topcoat. Refer to PDS for application guidelines.

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 +10°C or above 30°C.
- Do not mix solvents, sand or other products that could affect the products properties must not be added.
- Do not apply in more than 0.6mm thickness per layer.
- It is recommended to use a reinforcement mat. If an application without this mat is required, apply three coats of products.

ESTIMATING DATA

Consumption: Approximately two coats applications required 1.5 to 2.5 kg per square metre. 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 Membrane is available in 25kg pails.

Colour: White, grey and red.

SHELF LIFE

MasterSeal 640 Membrane 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.

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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

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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