MasterSeal® M 635
Flexible and elastic single component polyurethane waterproofing membrane

DESCRIPTION

MasterSeal M 635 is a single component, liquid applied polyurethane based, elastomeric coating for roof waterproofing.

RECOMMENDED USES

• Applicable for outdoor use
• Can be applied on concrete and cement mortar.
• Waterproofing of roofs, balconies and terraces.
Contact the Technical Service of your local BASF Construction Chemicals office regarding any application required not mentioned here.

FEATURES AND BENEFITS

• High elasticity and flexibility
• Excellent adhesion to concrete and mortar. Fully bonded system.
• Tar free
• Easy to apply.
• Excellent crack bridging capacity even at low temperatures.
• Monolithic – no laps, welds or seams.
• High water vapor permeability - low risk of blistering.

APPLICATION METHOD

(a) Surface Preparation
All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean of oil, grease, 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 pull off value of the substrate should exceed 1 N/mm² (check with an approved pull-off tester). Temperature of the substrate 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.

Primer: Suitable primer for using MasterSeal M 635 on concrete or cementitious mortar substrates is MasterSeal P 642 and MasterSeal P 2525. Refer to PDS for application guidelines.

Before the surface application, all detail areas and any singular points like wall-floor connections, chimneys, joints, substrate cracks, penetrations, corners, etc., must be treated. For this apply one layer of MasterSeal M 635, then place a correct cut stripe of geotextile mat (110g/m²) into the wet material. Press in to fully soak without leaving air pockets. Then fully saturate the geotextile mat by applying additional MasterSeal M 635. All lap joints in the mat reinforcement should be minimum 50 mm.

(b) Mixing
(c) Application
Homogenize MasterSeal M 635 with mechanical stirring before use. Pour the MasterSeal M 635 onto the primed substrate and spread with a roller or brush at a maximum consumption of 0.7 kg/m² per layer.

Working within the recommended over coating times, apply a second layer of MasterSeal M 635 at a maximum consumption of 0.7 kg/m².

For demanding applications, apply a fourth layer of MasterSeal M 635.

For details like wall-floor connections, 90° angles, chimneys, pipes, waterspouts (siphon), etc. it is recommended to reinforce with a geotextile mat (110g/m²)

Top Coat:
MasterSeal M 635 does not have sufficient UV and weather resistance to be used in exposed applications without protection. In exposed applications, apply one or two coats of MasterSeal TC 268. Refer to PDS for application guidelines. MasterSeal TC 268 can be broad- casted with dry silica sand to provide a hard wearing, slip resistant finish.

COVERAGE

Normally approx 1.68-1.75 kg/m² for 1mm DFT. These consumptions are theoretical and can vary according to the absorption and roughness of the support. It is essential to carry out representative
MasterSeal® M 635

trials on site to evaluate the exact consumption. Higher consumptions (for detailing’s with geo textile fabric) are possible.

For best performance

The product must not be applied when the temperature is below +10 ºC or above 30 ºC. Do not mix solvents, sand or other products that could affect the products properties must not be added. Do not apply in more than 0.6 mm thickness per layer. It is recommended to use a reinforcement mat for junctions and profile changes.

FINISHING AND CLEANING

While still wet clean with solvent (e.g. Cleaner 40 or sol- vent naphtha). Once cured it can only be removed mechanically.

PACKAGING

MasterSeal M 635 is available in 25 kg

COLOUR

White, red and grey

STORAGE /SHELF LIFE

Store in cool and dry warehouse conditions between 15 - 25 ºC. Do not expose to direct sunlight. Shelf life in these conditions is 9 months in unopened original containers.

WATCH POINTS

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maxi- mum allowable VOC limit (Stage 2, 2010)

According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j is 500 g/l (Limit: Stage 2, 2010).

The VOC content for MasterSeal M 635 is < 500 g/l (for the ready to use product).

HANDLING / PRECAUTIONS

In its cured state, MasterSeal M 635 is physiologically non-hazardous. The following protective measures should be taken when working with this material:

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of fumes. When working with the product, do not eat, smoke or work near a naked flame. For additional references to safety hazard warnings, regulations regarding transport and waste management, please refer to the relevant Material Safety Data Sheet. The regulations of the local trade association and/or other authorities regarding safety and hygiene of workers handling polyurethanes and isocyanates must be observed.

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