

MasterSeal[®] M 665

MS Polymer Based, One Component Waterproofing and Concrete Protection Membrane

DESCRIPTION OF THE PRODUCT

MasterSeal M 665 is a MS polymer based, one component, elastic waterproofing and concrete protection membrane which can be applied by brush or roller.

Complies with EN 1504 - 2

FIELD OF APPLICATION

- Interior and exterior areas for vertical and horizontal applications
- Roofs
- Terraces
- Balconies
- Protection of polyurethane thermal insulation foam
- For waterproofing and protection of concrete bridge deck*

*Contact the Technical Service of BASF Construction Chemicals office regarding any application required not mention here

FEATURES AND BENEFITS

- Excellent crack - bridging capacity up to 5 mm
- Single part, ready and easy to use
- Can be applied on damp substrates
- Provides easy solutions for tough details
- Can be applied by brush or roller
- Resistance to water and humidity
- High water vapor permeability
- High elasticity and flexibility
- No bitumen, solvent or isocyanate
- UV and weather resistant.
- Can be applied without primer depending on the structure of substrates*

* For different substrates please contact with Technical Department of BASF Construction Chemicals

APPLICATION PROCEDURE

Preparation of Surface

All substrates (new and old) must be structurally sound, dry and free of laticence 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 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. The concrete surface subject to application should have passed its 28 day strength.

Concrete

The concrete substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed. Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be pre-cleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner.

Asphalt

Asphalt should be cleaned by high pressure water jetting. The load bearing capacity of the asphalt in applications under load, should be suitable for the intended use. The surface should be shotblasted so that at least 60% of the surface aggregates are exposed.

Bitumen Felt

Blisters should be opened and dried. Major cracks should be repaired and taped.

Plywood

All joints should be flushed and taped.

Iron / Steel

Iron/steel should be sand blasted to an SA 2.5 finish prior to the application of the primer.

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Primers

Use the following table for the appropriate primer.

Application Surface	Primer
Concrete Dry Damp Wet	without primer or MasterSeal P 640 without primer or MasterSeal P 625 MasterSeal P 625
Iron and Steel	MasterSeal P 681
Stainless steel	without primer or MasterSeal P 681
Other Metals (Alumin, copper etc.)	MasterSeal P 684
Bitumen	MasterSeal P 698
Plywood	MasterSeal P 691
Ceramic	without primer or MasterSeal P 682
Aged MasterSeal M 800 membranes	MasterSeal P 691

For the application details of the appropriate primer prior to the application of **MasterSeal M 665**, please refer to the **technical data sheet** of the product.

In case of sandblasting on the primer, the surplus sand should be swept away from the surface before the waterproofing application.

Application

MasterSeal M 665 is a one component, ready-to-use material. It is poured homogeneously onto the surface after being thoroughly mixed. It should then be applied equally on the surface as one or two layers by way of a roller or brush.

MasterSeal M 665 first layer application is made with a consumption of 1,3 – 1,5 kg/m² per square meter. The second layer should then be applied with 1,3 – 1,5 kg/m² consumption after the first layer is thoroughly dry.

CONSUMPTION

About 2,6 – 3,0 kg/m² for two layers depending on surface roughness.

CLEANING OF TOOLS

The tools and equipment used should be cleaned via a proper solvent after application. **MasterSeal M 665** can be cleaned from the surface only mechanically after hardening.

PACKAGING

14 kg plastic buckets (7kg+7kg)

1 kg tin

STORAGE

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage.

SHELF LIFE

9 months starting from the date of production in proper storage conditions. **MasterSeal M 665** freezes at temperatures below 0°C.

WATCH POINTS

- Do not apply at temperatures below +5°C nor above +35°C.
- Operating and reaction times of MS polymer based systems are affected from environment and surface temperature as well as the relative humidity in the air. The reaction slows down at low temperatures which increases working time. High temperatures speed up the reaction thereby decrease the working time. The environment and surface temperatures should not decrease below the minimum allowed temperature in order to complete the curing of the material.
- The concrete surface subject to application should have passed its 28 day strength.

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Technical Properties			
Property	Standard	Unit	Value
Malzeme Yapısı	-	-	MS Polymer
Color	-	-	Grey
Density	-	gr/cm ³	1,44
Crack Bridging	-	mm	Up to 5
Elongation At Break Strength	DIN 53504	%	250
Viscosity	-	mPa.s	15000
Shore A	EN ISO 868	-	40
Tear Strength	ASTM D 624	N/mm ²	2,76
Permeability of Water Vapour	EN ISO 7783	m	Sd: 0,868 (Class I: sd<5m)
Capillary Absorption and Permeability to Water	EN 1062-3	kg/m ² . h ^{0,5}	0,009 (w < 0,1 kg/m ² . h ^{0,5})
Tensile Strength	DIN 53504	N/mm ²	>0,9
Application Temperature	-	°C	+5 to +35
Service Temperature	-	°C	-25 to +80
Pot-Life	-	hour	~1
Re-coating interval	+23°C +10°C	hours hours	min 8 min 24

*Typical values were obtained as a result of experiments at + 23 ° C, 50% relative humidity conditions.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. BASF Türk Kimya Sanayi ve Tic. Ltd. Şti. is only responsible for the quality of the product. BASF Türk Kimya Sanayi 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

HEALTH AND SAFETY 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. Specific safety information referring the handling and transport of this product can be found in the Material Safety Data Sheet. Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the product.

INFORMATION

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