

MasterSeal® Roof 3500

Crack bridging, Spray applied Waterproofing system for Roofs

DESCRIPTION

MasterSeal Roof 3500 is a liquid applied, crack bridging roof waterproofing system based on advanced polymeric materials. It consists of a primer, an elastomeric waterproofing membrane, and an UV resistant topcoat. The seamless coating has an attractive, UV and weather resistant finish which is easy to clean and maintain.

Elastomeric membrane are available with hot spray applied and hand applied.

RECOMMENDED USES

MasterSeal Roof 3500 is intended for use in variety of concrete waterproofing application, including roof, exposed roof, roof garden, balconies, terraces, podium etc.

MasterSeal Roof 3500 is also used on slabs with pedestrian traffic.

FEATURES AND BENEFITS

- **Crack bridging** – Copes with existing and newly formed cracks
- **UV and Weather Resistant** – Durable and Long life
- **Easy to apply** – no pre-stripping of cracks or joints
- **Reactive Spray application** – Faster & Easier application over large areas
- **Liquid Applied** – Easy to apply over complex shapes
- **Versatile** - Can be applied to variety of substrates using selected primers
- **Attractive appearance** – colors available

SYSTEM BUILD UP

MasterSeal Roof 3500 is multi-layered system and is composed of

1. Primer
2. Membrane
3. Topcoat

Primer: Selection of right primer depends upon the substrate to which membrane is being applied. Use the following table to select the right primer

Substrate	Primer
Concrete / Cementitious Screed	MasterSeal P 770/770N
	MasterSeal P 2525
	MasterEmaco P 2525
	MasterSeal P 658
	MasterTop 1140
Bitumen Felt	MasterSeal P 698
Asphalt Screed	MasterTop P 660
Plywood	MasterTop P 660 / 691

GRP / GFK	MasterSeal P 691
Iron and Steel	MasterSeal P 681
Non-Ferrous Metal	MasterSeal P 684
Aged MasterSeal Membranes	MasterSeal P 691

Membrane:

MasterSeal M 800: two-component, high reactive, Spray applied, elastomeric polyurethane-polyurea hybrid membrane

MasterSeal M 860: two-component, hand applied, self-levelling, elastomeric polyurethane-polyurea hybrid membrane

MasterSeal M 861: a two-component, hand applied, thixotropic, elastomeric polyurethane-polyurea hybrid membrane for applications to steeply sloping and vertical surfaces.

Topcoat:

MasterSeal TC 258 / 259 /225: Single component low solvent, pigmented, moisture curing, UV and weather resistant, protective topcoat based on high quality aliphatic polyurethane prepolymers.

Please refer to the individual technical datasheets of the components for other details.

The consumption rates for the individual components are as given below:

Layer	Product	Consumption (Kg/m ²)
Primer	MasterSeal P 770 (N)	0.25 ~ 0.30
Alternative Primer	MasterSeal P 2525 / MasterSeal P 658 / MasterEmaco P 2525 MasterTop P 1140	0.3 ~ 0.5
with broadcast sand	Oven dried Silica Sand (0.3 – 0.8mm)	0.8 ~ 1.0
Membrane	MasterSeal M 800	1.8 – 2.4
Alternate	MasterSeal M 860 (Horizontal)	2.0 ~ 2.5
	MasterSeal M 861 (Vertical)	1.7 ~ 2.1
Topcoat* (for exposed)	MasterSeal TC 259 /225	0.20 ~ 0.30
Alternate	MasterSeal TC 258	0.5
* Topcoat is applied in two layers.		
Total thickness approx. 2.0 ~ 2.6mm		
Consumption figures are a guide only and may be higher in rough or porous substrates.		

MasterSeal[®] Roof 3500

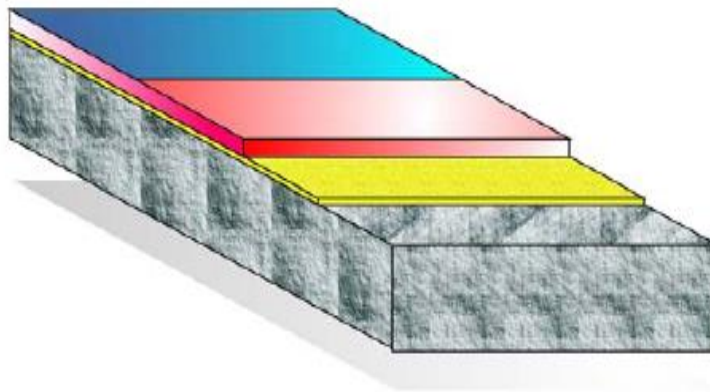
APPLICATION




For detailed, product specific application instructions, see individual product technical data sheets.

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 Master Builders Solutions Material Safety Data Sheet (MSDS) from our office or our website.


System Build Up:




For Concrete Substrates	Product Name	Consumption
 Primer	MasterSeal P 770(N)	0.25 ~ 0.3 kg/m ²
	Alternative Primer with broadcast sand	
	MasterSeal P 2525 or MasterSeal P 658 or MasterEmaco 2525 or MasterTop 1140	0.3 – 0.5 kg/m ² 0.8 – 1.0 kg/m ²
	Oven dried Silica Sand (0.3 – 0.8mm)	
 Membrane	MasterSeal M 800	1.8 ~ 2.4 kg/m ²
	Alternative hand applied membrane	
	MasterSeal M 860 (Horizontal) MasterSeal M 861 (Vertical)	2.0 ~ 2.5 kg/m ² 1.7 ~ 2.1 kg/m ²
 Topcoat (for exposed)	MasterSeal TC 259 / 225	2*(0.10~0.15) kg/m ²
	Alternate MasterSeal TC 258	2*0.25 kg/m ²
Total Thickness of System		2.0 mm to 2.6 mm

MasterSeal[®] Roof 3500

Based on Hot Spray membrane

CE-MARKING (EN 1504-2)	
	
1119	
Master Builders Solutions Coatings GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
15	
480002	
EN 1504-2:2004	
Surface protection product - coatings EN 1504-2: ZA.1d, ZA, 1e, ZA.1f and ZA.1g	
Abrasion Resistance	NPD
Permeability to CO ₂	Sd > 50
Permeability to Water Vapor	Class II
Capillary absorption and permeability to water	<0.01 kg/(m ² xh0,5)
Thermal compatibility	≥ 1.5 N/mm ²
Resistance to severe chemical attack	Reduction of hardness < 50 %
Crack bridging ability	Dynamic: B4.2 (-20°C) Static: A5 (23°C)
Impact Resistance	Class I
Adhesion Strength by pull-off test	≥ 1.5 N/mm ²
Reaction to fire	Efl
Artificial aging	NPD
Skid Resistance	NPD
NPD = No performance determined	

Based on Hand Applied membrane

CE-MARKING (EN 1504-2)	
	
1119	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
15	
216001	
EN 1504-2:2004	
Surface protection product - coatings EN 1504-2: ZA.1d, ZA.1e, ZA.1f and ZA.1g	
Abrasion resistance	NPD
Permeability to CO ₂	Sd > 50
Permeability to water vapour	TBD
Capillary absorption and permeability to water	< 0.01 kg/(m ² xh0,5)
Thermal compatibility	≥ 1.5 N/mm ²
Resistance to severe chemical attack	Reduction of hardness < 50 %
Crack bridging ability	A 5 at -10 °C B 4.2 at 23 °C
Impact resistance	TBD
Adhesion strength by pull-off test	≥ 1.5 N/mm ²
Reaction to fire	Broof-T2
Artificial aging	passed
Skid resistance	NPD
NPD = No performance determined	

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MAP#MasterSeal Roof 3500 v3-01.2023

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified, or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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