

MasterSeal M 860

A5 class crack bridging polyurethane waterproofing membrane at -10°C self-levelling of the MasterSeal Roof 2160 system.

MATERIAL DESCRIPTION

MasterSeal M 860 is a self-levelling polyurethane elastomeric resin.

It is applied by hand to obtain a continuous waterproofing membrane with very high performance. Also applicable to thixotropic consistency with the addition of MasterTop TIX9.



FIELDS OF APPLICATION

MasterSeal M 860 is specifically indicated for all fields of application of the MasterSeal Roof 2160 system.

FEATURES AND BENEFITS

MasterSeal M 860 has the following peculiar characteristics:

- self-levelling: it is very easy to apply with a notched squeegee or trowel;
- not solvent-based;
- has very high elastic characteristics and crack bridging ability: these properties allow the coating to remain intact through the cracks in the substrate;
- adheres monolithically to the substrate;
- complies with the principles defined in UNI EN 1504/2 ("Concrete surface protection systems") and the relative acceptance limits;
- fire reaction class, UNI EN 13501-1 Cfl- S1 and Broof-t2 according to UNI EN 13501-5;
- anti-root certified, UNI CEN / TC 14416;
- In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking both according to UNI EN 1504-2 and UNI EN 13813 and the relative DoP (Declaration of Performance).

THEORICAL COVERAGE

2 – 2,5 kg/m².

PACKAGING

A: 10.7 kg can

B: 19.3 kg can

STORAGE

Store the material in the original containers, in a dry and covered place at a temperature between 15 and 25°C. Do not expose to direct sunlight.

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Data for the application					
Mixing ratio		Weight 100 A: 180 B	Density	1,35 kg/liter	
Viscosity at 20°C		5200 mPa.s	Complete hardening at 23°C	4 days	
Recoating times		10°C: 8 – 48 h 20°C: 5 – 24 h	Workability time	10°C: 35 min 20°C: 25 min 30°C: 15 min	
Consumption		2 – 2,5 kg/m ²	Packaging	A: 10.7 kg can B: 19.3 kg can	
Technical informations according UNI EN 1504/2 (with an application of 2 mm)			Limits and class	Performance	
Adhesion to concrete	In the absence of thermal cycles		UNI EN 1542 on support MC (0,40) EN 1766	> 0.8 MPa	> 3.0 MPa
	After 50 cycles of freezing and thawing with de-icing salts UNI EN 13687/1			> 0.8 MPa	> 3.0 MPa
Crack bridging ability at 23°C UNI EN 1062/7			Static	Class A ₁ ; A ₂ ; A ₃ ; A ₄ ; A ₅	Class A ₅
			Dynamic	Class B ₁ , B ₂ B _{3.1} B _{3.2} B _{4.1} B _{4.2}	Class B _{4.2}
Crack bridging ability at -20°C UNI EN 1062/7			Static	Class A ₁ ; A ₂ ; A ₃ ; A ₄ ; A ₅	Class A ₅
			Dynamic	Class B ₁ , B ₂ B _{3.1} B _{3.2} B _{4.1} B _{4.2}	Class B _{4.2}
Permeability	Water vapor	UNI EN ISO 7783/1. Equivalent air thickness S _d , S _d = μ s, μ = coefficient Vapor diff. S = thickness	Class I: S _d <5 m (Permeable), Class II: S _d >5 and < 50 m, Class III: S _d > 50 m (Not Perm.)		Class II
	To CO ₂	UNI EN 1062/6. Equivalent thickness of air S _d , S _d = μ · s, μ = coeff. Diff. CO ₂ s = thickness	S _d > 50 m		S _d >400 m
	To water	For capillary absorption EN 1062/3	< 0,1 kg·m ⁻² ·h ^{-0,5}		0,01 kg·m ⁻² ·h ^{-0,5}
Mechanical resistance	Impact	UNI EN ISO 6272	Class I: 4 N·m, Class II: 10 N·m, Class III: 20 N·m		Class I
UV resistance	Aging under artificial atmospheric agents (2000 hours of UV rays and condensation) UNI EN 1062/11		No swelling, cracks or flaking		No swelling, cracks or flaking (color change)
Fire reaction class		UNI EN 13501-1	Classes A1fl, A2fl, Bfl, Cfl, Dfl, E1fl, F1fl; Smoke emission classes: S1, S2		C _{fl} -S ₁
Resistance to root penetration UNI CEN / TC 14416			Penetration. maximum <50 mm		No penetration

APPLICATION SHEET

For every detail relating to the application aspects, always refer to the specific document MasterSeal Roof Waterproofing Roofing Application Manual ".

TEMPERATURE

The application can take place when the ambient temperature is between + 5°C and + 40°C and always higher than 3°C with respect to the dew point.

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MIXING

Mix the two components of MasterSeal M 860 separately with an electric mixer at low speed (300 rpm), then pour all of component A into the can of component B; then mix the system for at least three minutes until completely homogenized. To obtain the best results in terms of workability time, it is advisable to check that the temperature of the two components is between + 15°C and + 25°C

In the case of vertical applications, it is possible to obtain the thixotropic consistency by adding the product MasterTop TIX 9 in component B in the ratio of 2-3% of the total weight (A + B) of MasterSeal M 860.

APPLICATION

MasterSeal M 860 is easily applied by pouring it on the surface and distributing it evenly using a rubber squeegee or notched trowel. With the addition of MasterTop TIX9, the product is applied with a spatula ..

TOOL CLEANING

Clean tools immediately after use with P 200 thinner.

Use a 1% sodium hypochlorite (bleach) solution in water. Leave to act for at least 30 minutes and a maximum of 60 minutes, then wash thoroughly with tap water.

In the case of heavily soiled surfaces, this process can be repeated a second time or higher concentrations of sodium hypochlorite (maximum 5%) can be used.

WARNINGS

MasterSeal M 860 changes color when exposed to UV rays. However, short-term exposure to UV rays does not compromise the durability of the intervention.

MasterSeal are products for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.



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Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

Master Builders Solutions Italia Spa

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For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.