

MasterSeal Roof 2160

Continuous waterproofing system for walkable roofs, based on the membrane MasterSeal M 860 self-leveling, Cool Roof certified, Broof-t2 UNI EN 13501/5.

MATERIAL DESCRIPTION

The MasterSeal Roof 2160 system is articulated, for one average thickness of 2-2.5 mm, in:

- primer of the MasterSeal P and MasterTop P line: for each type of support is associated with a specific primer;
- self-leveling waterproofing membrane MasterSeal M 860;
- elastic polyurethane finish (MasterSeal TC 259 (o MasterSeal TC 269 or MasterTop TC 471W), for give the system resistance to UV radiation, resistance to stagnant water, the desired color and the properties of solar reflectance.

FIELDS OF APPLICATION

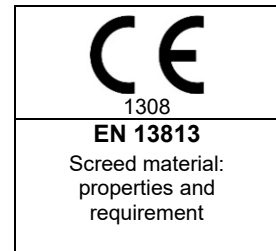
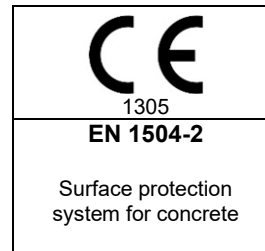
MasterSeal Roof 2160 is ideal for waterproofing of industrial roofs, commercial, hospitals, sloping roofs, inverted roofs, walkable terraces, garden terraces, horizontal surfaces walkable

FEATURES AND BENEFITS

MasterSeal Roof 2160 has the following peculiar characteristics:

- adheres monolithically to the substrate;
- can be applied to a variety of different substrates (reinforced concrete, bituminous sheath);
- has a very high resistance to shocks and abrasion;
- UV resistant;
- it has very high elastic characteristics and crack bridging ability;
- complies with the principles defined in UNI EN 1504/2 ("Concrete surface protection systems") and the relative acceptance limits;
- membrane with fire reaction class Cfl-S1 according to UNI EN 13501-1;
- Broof-t2 fire reaction class according to UNI EN 13501-5;
- "Cool Roof" certified;
- 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 according to UNI EN 1504-2 and UNI EN 13813 and the relative DoP (Declaration of Performance).



PACKAGING

Product	Pack	Kg
MasterTop P 604	Cans	30 (A+B)
MasterTop P 622	Cans	17,20 (A+B)
MasterSeal P 770	Cans	5 (A+B)
MasterTop P 686W	Cans	25 (A+B)
MasterSeal P 684	Cans	4,7
MasterSeal P 681	Cans	10 (A+B)
MasterSeal P 691	Cans	19,5
MasterSeal M 811	Cans	A: 210, B: 220
MasterSeal TC 259	Cans	12,5
MasterSeal TC 269	Cans	10 (A+B)
MasterTop TC 417W	Cans	10 (A+B)

STORAGE

Store the product in a sheltered, dry place at a temperature anywhere between +15°C and +25 °C

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System Build Up (thickness 2mm)					
Material		Product	Function	kg/m ²	
Primer	MasterTop P 604, P 622 o MasterSeal P 770		Primer for reinforced concrete	0,3-0,5	
	MasterTop P 686W		Water-based primer for bituminous membrane	0,1-0,2	
	MasterSeal P 684		Primer for sheet metal	0,03-0,06	
	MasterSeal P 681		Primer for steel	0,6-1	
	MasterSeal P 691		Primer for filming and for bituminous sheath	0,05-0,15	
Membrane		MasterSeal M 860	Membrane	2-2,5	
Top Coat	MasterSeal TC 259		One-component finish	0,4-0,5	
	MasterSeal TC 269		Two-component finish	0,3-0,4	
	MasterTop TC 417W		Two-component water-based finish	0,2	
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	> 0.8 MPa	> 3.0 MPa
	After 50 cycles of freezing and thawing with de-icing salts UNI EN 13687/1		MC (0,40) EN 1766	> 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 13501-5			B _{Roof} -t1, t2, t3, t4	B _{Roof} -t2	
Fire reaction class MasterSeal M811 UNI EN 13501-1			Fire reaction classes: A1fl, A2fl, Bfl, Cfl, Dfl, E1fl, F1fl; Smoke emission classes: S1, S2	C _{fl} -S1	
Slip / creep resistance UNI EN 13036/4 • MasterSeal TC 259 with MasterTop F5 0.4 kg / m ² • MasterSeal TC 269 with MasterTop F5 0.4 kg / m ² • MasterTop TC 417 W with MasterTop F5 0.25 kg / m ²			Class III (wet test for external surfaces > 55 units)	Classe III	

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In the event that the system with anti-slip characteristics is to be created, the consumption of MasterSeal TC 259, MasterSeal TC 269 and MasterTop TC 417 W must be increased by 0.2 kg / m², the latter being made in two coats with interposed sowing of MasterTop quartz. F 5.

APPLICATION SHEET

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

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.



TECHNICAL DATA according to Cool Roof and UNI CEN / TC 14416 (referred to 2 mm)	Limits and classes	Performance
Solar Reflectance (MasterSeal Roof RAL 9010, 9003)		
Thermal emissivity (MasterSeal Roof RAL 9010, 9003),	R > 65%; E > 80%; SRI > 78%	R > 84%; E > 88%; SRI > 105%
Solar Reflectance Index (MasterSeal Roof RAL 9010, 9003)		
Resistance to root penetration, UNI CEN / TC 14416	No penetration	No penetration

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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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This version supersedes all the previous ones.