

Universal, ductile, A1 crack bridging surface finishing with special HPF fibers that eliminate traditional nets avoiding cracks. Excellent aesthetic finish. Thickness 3-5 mm.

MATERIAL DESCRIPTION

MasterEmaco N 530 FR is a single-component ductile mortar for smoothing and surface finishing of facades made with the most varied civil and industrial building techniques and products.

The innovative HPF fibers (High Performance Fibers) form a reinforcement to the product matrix that gives a ductile behavior protecting the use of integrative net. Furthermore, the special PAN fibers counteract the formation of cracks in the plastic phase.

The innovative application creates a sort of slow-release "internal water tank" that allows for better growth in favor of the tendency to crack and also allows for absorbent substrates.

Although present in large quantities, HPF fibers still allow excellent workability to be maintained.



FIELDS OF APPLICATION

MasterEmaco N 530 FR is the ideal product for the precision finishing of old plasters, even partially restored, of facades made with scratched plastic finishes or pigmented quartz coatings and for smoothing traditional cement plaster and exposed concrete.

MasterEmaco N 530 FR is a universal smoothing compound as, thanks to its versatility of use and characteristics, it is successfully used in many fields, both for interiors and exteriors.

MasterEmaco N 530 FR can be used:

- on cementitious, mixed and pure lime-based plasters;
- on bastard mortar plasters;
- on lime mortar plasters;
- on well anchored plastic coatings (acrylic, vinyl);

on concrete.

The previously mentioned pre-existing coatings must be absolutely consistent, well anchored, solid and clean, so the preparation of the substrate is essential. For any further clarification, please refer to our technical service.

FEATURES AND BENEFITS

The peculiar characteristics of MasterEmaco N 530 FR are:

- ductility: MasterEmaco N 530 FR is a highly ductile skim coat thanks to the presence of the innovative HPF fibers that form a diffuse reinforcement inside the product matrix. This guarantees the realization of the work even without the use of the net;
- resistance to cracking: to combat micro-cracking in the plastic phase, MasterEmaco N 530 FR contains PAN fibers (in polyacrylonitrile);
- innovation: the use of our innovative technology allows to obtain significant benefits, such as: the possibility of application even on particularly absorbent substrates and a drastic reduction of the tendency to crack, thanks to an internal water reserve that guarantees a sort of internal seasoning;
- high adhesion: it adheres perfectly, even in overhead applications (ZERO GRAVITY), to all typical substrates present in construction, including non-absorbent ones, and to properly prepared concrete;
- high yield, low consumption: 12 kg/m² per cm of thickness and, thanks to the perfect thixotropy, minimizes waste especially in overhead applications by minimizing waste (ZERO GRAVITY).



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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 1504-2,1504-3 and 998-1 and the relative DoP (Declaration of Performance).



Plaster mortar with guaranteed performance for general uses (GP) for indoor and outdoor use

CONSUMPTION

Consumption is approximately equal to 1.2 kg/m², 1 mm. The minimum thickness to be applied is 3 mm.

PACKAGING

MasterEmaco N 530 FR is available in 25 kg bags.

STORAGE

Store in a sheltered and dry place.

FIBERS

Characteristic	
Form	linear
Material	HPME
Length - according to EN 14889-1 (mm)	12
Tensile strength - according to EN 14889-1	2800 MPa
Elastic modulus - according to EN 14889-1 (GPa)	86 GPa
Elongation at break - according to EN 14889-1 (%)	3,5



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Technical Information								
Class of belonging	R1		Chloride ion content		<0.05%			
according to EN 1504-3			according to EN 1015-17					
Appearance	Dust		Application temperature		5°C – 35°C			
Color	Light grey		Consumption		1.2 kg / m ² for thickness of mm			
Granulometry	Max 0.8 mm		Application thickness		3 - 5 mm			
Shelf life	18 months		Workability time		90 min			
Water	6 - 6.8 liters per bag		Setting time:		C haven			
			start		6 nours 7 hours			
Packaging	25 kg		ena		7 Hours			
Essential characteristic with a dosage of water of 25.6		%	Classe	es	Performance			
Adhesion to concrete		UNI EN 1542 or	I MC 0.40 type					
		support (having a / c ratio =		≥ 0,8 MPa		≥ 1,4 MPa		
		0.40) according t	o UNI EN 1766			s alastan tanalla		
Adhesion to the substrate on standard			-		> plaster tensile			
Compressive strength	LINI EN 12100			a 28 ag > 10 MPc		1 y 2 3 MFa 7 nn > 9 MPa		
	UNI EN 12190			a 20 gg 2 10		28 gg > 12 MPa		
Tensile strength for bending					1 q > 2 MPa			
UNI EN		UNI EN 196/1	NI EN 196/1			7 gg > 4 MPa		
					28 gg > 5 MPa			
Water impermeability measured as a UNI E		UNI EN 13057		-		≤ 0,5 kg·m- ² ·h- ^{0,5}		
Capillary absorption coefficient								
measuring the flexural tensile strength						fR1k = 2.0 MPa		
(limit of proportionality (LOP), residual)		EN 14651		-		fR3k = 1.2 MPa		
minimum requirements according to						,		
UNI EN 1542 adhesion				For rigid systems		1,4 MPa		
				without traffic				
		EN 7700// 0		≥ 1,0		00.040		
Permeability to water vapor EN 7783/1_		EN 7783/1_2	Class I SD ≤ 5		\$ 5	SD=0,19 m		
Thermal compatibility: part 1 - freeze-		EN 13687-1		For rigid systems		1,45 MPa		
thaw test				without traffic				
		EN 1000 0		≥ 1,0		0.001 / 21		
Impermeability expressed as water EN 1062-3		EN 1062-3		₩ < 0,1 - Cla	asse III	0,09 kg/m².n		
permeability coefficient		+ 10 2 11 2			Euroclass A1			
		EN 1504-3 point 5 /		- Conform		Conform		
Water absorption by capillarity		5.4			W2 (<0.20 kg/m ² ·			
EN 1015-18		EN 1015-18		$\begin{array}{c c} \text{da W O a W 2} \\ \text{min} \ 0.5 \\ \text{min} \ 0.5 \\ \end{array}$		min 0,5)		
Compressive strength		EN 1015-11		>6 N/mm ²		>14 N/mm ²		
Membership			Declared value and		0.68 N/mm ² - FP: B			
Operficient of the	4			type of failur	e FP			
vapor	nt of permeability to water EN 1015-19			-		19		
Thermal conductivity		EN 1745:2002		Table value		0.45 W/m · K		
Crack bridging ability					23°C Static: class A1			
;		UNI EN 1062/7		-		(gap up to 0.1 mm)		



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APPLICATION SHEET

PREPARATION OF THE SUPPORT

Regardless of the type of substrate, always check that it is consistent, free from loose parts, compact and that the surface is clean.

Porous and absorbent substrates must be moistened before application.

Depending on the type of substrate, the most suitable preparation method will be chosen between sandblasting, hydro-sandblasting, use of specific mechanical equipment to obtain a support capable of guaranteeing correct adhesion of the product. For applications on compact substrates without adequate roughness, operations aimed at increasing the roughness of the substrate must also be envisaged.

SUPPORT CLEANING AND SATURATION

The cleaning and saturation of the substrate should preferably be carried out using pressurized water ($80 \div 100$ atm and hot water in the winter). This operation is essential to prevent the substrate from removing water from the mixture. The use of pressurized water also ensures effective cleaning of the surfaces, removing any dust that may still be present after preparation of the substrate. Cleaning and saturation of the surfaces are essential to obtain high levels of adhesion between the support and the new leveling.

APPLICATION TEMPERATURE

MasterEmaco N 530 FR can be applied when the temperature of the environment and of the substrate is between + 5° C and + 35° C.

When the temperature is 5-10°C, the development of mechanical resistance is slower; it is advisable to keep the bags of MasterEmaco N 530 FR in a heated environment and to apply the mortar in the middle of the morning. It is recommended not to apply at temperatures below + 5°C. When the temperature is $30 \div 35^{\circ}$ C it is recommended to keep the bags of MasterEmaco N 530 FR in a cool place, to use low temperature mixing water and to apply the mortar in the cooler hours.

MIX PREPARATION

The mixing is carried out using a standard low speed whip mixer, in order to avoid an excessive incorporation of air into the mortar. The mixing must continue until a creamy, homogeneous and lump-free mixture is obtained. Hand mixing is not recommended. The premixed mortar is mixed with clean water only and the quantity will be equal to 6.0 - 6.8 liters per 25 kg bag depending on the required consistency. Pour part of the required water into a suitable clean container and add all the powder.

Then mix everything and gradually add the remaining water until the desired workability is achieved, then mix again for a short time, adjusting the consistency as needed.

Never exceed the maximum amount of water indicated.

APPLICATION

The surface must be saturated with water, but it must not have water on the surface.

The material can be applied manually using a stainless steel trowel in a single layer for thicknesses ranging from 3 to 5 mm.

The material can be applied by spraying with a suitable machine (excluding the use of continuous cycle machines).

TROWELING

The float must be done using a sponge trowel.

The time interval between application and finishing with a trowel is established according to the first stiffening of the mortar, which is determined when, by placing a hand on the surface, the fingers do not sink but leave a slight imprint.

A correct trowelling allows to enhance the behavior of the microfibers which counteracts the formation of microcracks deriving from shrinkage in the plastic phase.

PROTECTION

To increase the useful life of the structure, increasing the durability even of the areas where maintenance was not required, it is always recommended to apply a protective system, preferably elastic, of the MasterProtect line to the entire structure, which acts as a barrier to entry. aggressive agents of the environment.

The application of a protective will also improve the aesthetic appearance of the structure.



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ATTENTION

Do not apply on gypsum substrates or substrates other than those indicated in the fields of application.

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 <u>www.master-builders-solutions.com/it-it</u> or contact <u>infomac@mbcc-group.com</u>.

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



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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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.