

# MS ROOFING

## PRODUCT DESCRIPTION

Adhesive sealant - elastic covering based on **MS POLYMER**.

## PRODUCT CHARACTERISTICS

**MS ROOFING** is a one part, moisture curing, knife grade paste.

**MS ROOFING** is suitable for sealing and repairing waterproof coatings in building application and for sealing roofing elements.

**MS ROOFING** is a suitable coating according to **EN 1504** for the surface protection of concrete against infiltration of damaging external agents, humidity control and corrosion protection by increasing resistivity.

**MS ROOFING** is suitable for hermetic incapsulation **TYPE A** in the cycles of restoration of roofing and products containing asbestos on the basis of the Italian regulation **DMS 20th August 1999**.

- One-component, ready to use.
- Neutral rapid curing.
- Solventless and isocyanate free.
- Flexible at low (-40°C) and high (+ 100°C) temperatures.
- Excellent UV and weathering resistance.
- Good adhesion to concrete, stonework, bricks, metals and sheets, wood, thermal/acoustic insulating foams, many plastics.

## TYPICAL USES (professional)

- For sealing, waterproofing and protection of flashings, skylights, chimneys, railings, piping.
- For restoring old gaskets.
- For additional sealing against infiltrations.
- For reinforcing and sealing vertical turn-ups between membranes and walls.
- Encapsulant in the cycles of restoration of roofing and products containing asbestos.



## LIMITATIONS

- Applications in water continuous immersion have to be double checked with Fratelli Zucchini S.p.A. Technical Area.
- Not suitable for joints in swimming pools and adjacent areas that are in continuous contact with pool water.
- It must not be used for items that come in contact with food, or with materials that ooze oily substances or plasticisers.
- Furthermore, it must not be applied in completely enclosed spaces, with no exposure to atmospheric humidity.
- Do not use in extreme temperature conditions, or on damp, frozen, contaminated surfaces.
- Do not use on excessively acidic or basic substrates.
- Not suitable for use on natural copper.
- For any application not listed in this document please contact our Technical Service.

## TECHNICAL DATA

<b>Polymers and the curing system:</b>	MS Polymer, alcoxy
<b>Consistency:</b>	Paste
<b>Specific gravity:</b>	1,56 kg/dm <sup>3</sup>
<b>Shore A Hardness (DIN 53505):</b>	40
<b>100% modulus (DIN 53504):</b>	1,2 MPa
<b>Tensile strength (DIN 53504):</b>	2 MPa
<b>Elongation at break:</b>	240 %
<b>Tear resistance (ASTM D 624-73):</b>	7 N/mm
<b>Skin forming time (20°C/50% R.H.):</b>	50 min. approx.
<b>Curing speed (20°C/50% R.H.):</b>	2 - 3 mm after 24 h.

The values in this table must not be considered as specifications.



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## APPROVALS

**MS ROOFING** has been tested and classified by **EUROFINS** according to:

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation	A +	Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM Edilizia	Pass	Decree 11 October 2017 (GU n.259 del 6-11-2017)
ABG	Pass	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes (ABG), Entwurf 31.08.2017/August 2018 (AgBB)
Belgian Regulation	Pass	Royal decree of May 2014 (C-2014/24239)
EMICODE *	EC 1 PLUS	apr-19
Indoor Air Comfort®	Pass	Indoor Air Comfort 6.0 of February 2017
Indoor Air Comfort GOLD®	Pass	Indoor Air Comfort GOLD 6.0 of February 2017
Blue Angel (DE-UZ 123)	Pass	DE-UZ 123 for "Low-Emission Sealants for Interior Use", (January 2019)
BREEAM International	Exemplary Level	BREEAM International New Construction v2.0 (2016)
BREEAM® NOR	Pass	BREEAM-NOR New Construction v1.2 (2019)
LEED	Pass	v 4.1 July 2019

\* This test report does not alone entitle to use the protected trademark label EMICODE.

**MS ROOFING** has been tested and classified by **ISTITUTO GIORDANO** according to:

**ASTM E1980 - 11(2019) SOLAR REFLECTANCE INDEX MEASUREMENT** (approval n. 378564)

Colour	Solar reflectance "ρ <sub>e</sub> "	Solar absorptance "α <sub>e</sub> "	Thermal emissivity "ε"	SOLAR REFLECTANCE INDEX "SRI"		
				h <sub>c</sub> = 5 W/(m <sup>2</sup> · K)	h <sub>c</sub> = 12 W/(m <sup>2</sup> · K)	h <sub>c</sub> = 30 W/(m <sup>2</sup> · K)
White	0,78	0,22	0,92	98,0	98,0	97,9
Light grey	0,30	0,70	0,91	32,6	33,1	33,4

## Standard compliance



### EN 1504-2: 2004

Surface protection systems for concrete: coating (C), protection against ingress (PI), moisture control (MC), increasing resistivity (IR).

**MS ROOFING** is suitable for hermetic incapsulation TYPE A in the cycles of restoration of roofing and products containing asbestos on the basis of the Italian regulation **DMS 20th August 1999**.

## METHOD OF USE

The substrate must be clean, dust free, free of grease, oils, dirt, coatings, etc. which can prevent adhesion.

Concrete substrate must be compact, mechanically remove the friable or loose parts, eventually it is advisable to apply **PRIMER LMBV** as a consolidating agent.

Room temperature should be in the range +10° to +40°C.

Surface temperature should be above 3°C the dew point.

Apply a first coat of **MS ROOFING** with a smooth spatula or trowel, in order to obtain an uniform covering (0,5 - 1 mm.) of all the surface, particularly in the proximity of joints and points of contact between roof and wall.

**Consumption:** 1 - 1,5 Kg/m<sup>2</sup>.

On joints, any roof and wall conjunctions and wherever potential cracks could occur, as long as the surface is still sticky, within the skin formation time, lay a fabric or reinforcement net.

After 24/48 hours curing, depending on the temperature and the environment moisture, apply a second layer by spatula, trowel roof, brush or solvent-resistant short-haired roller.

**Consumption:** approx. 1,5 kg/m<sup>2</sup>.

This amount can vary depending on the roughness of the support, according to the applicator used one or two layers could be necessary.

The final layer must in any case be sufficient to cover the weave of the reinforcement net wherever inserted.

**MS ROOFING** applied alone, in thicknesses of at least 2 mm (about 3 kg/m<sup>2</sup> total of 2 or more coats) is suitable for the surface protection of concrete according to **EN 1504** against infiltration of external agents, humidity control and protection of corrosion by increasing resistivity.

The asbestos encapsulating cycle composed of **MS ROOFING** applied for a total consumption of 500 g/m<sup>2</sup> is suitable to be used as **encapsulating covering** on the basis of the provisions of the **Italian DMS 20 August 1999**.

**Solvent wiping:** traces of **MS ROOFING** can be cleaned using **Solvente ST 512**.

Cured product can be removed mechanically.



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**Paintability:** it should be kept in mind that any overpainting can modify the surface elastic properties of the sealant and its ability to flex with movement and may compromise the functionality of the joint.

The compatibility of the sealant with the paint must first be verified by testing.

Aesthetically pleasing results can generally be achieved by applying the paint after the sealant has hardened completely.

## SAFETY AND HEALTH

See Safety Data Sheet.

## STORAGE STABILITY

- 290 ml. cartridge 18 months from the date of manufacture.
- 5 kg pail 12 months from the date of manufacture.

Store the sealed product in the original packaging, in a dry place at a temperature between +5°C and +25°C.

**The product may become more viscose during storage.**

## PACKAGING

Code	Colour	Packaging	pcs./box
1004043	charcoal grey	5 Kg. pail	-

Other sizes available on request.



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