

MS SPRAY F

PRODUCT DESCRIPTION

MS SPRAY F is a one-part adhesive based on **MS Polymer** which cures with the humidity of the environment and of the bonded surfaces.

PRODUCT CHARACTERISTICS

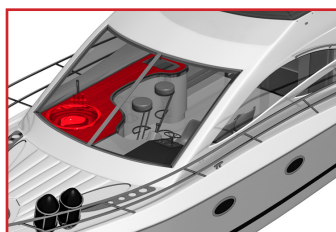
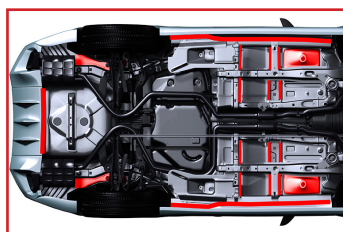
No solvents or isocyanates, not subject to shrinkage after polymerization it develops high bonding strength, permanent elasticity, excellent moisture resistance and adhesion to substrates.

Accredited for bonding floor composites according to **EN 45545-2: 2013** in the railway sector.

- One component, ready to use without mixing.
- Absence of solvents and isocyanates.
- Permanent elasticity at temperatures between -40°C and +90°C.
- Neutral reaction, absence of odor.
- Very fast polymerization.
- Good resistance to ageing and moisture.
- Acoustic insulation properties.
- Excellent adhesion to wood, concrete, ceramics and metals.
- High bonding strength.
- Suitable for floors with underfloor heating.

TYPICAL APPLICATIONS (professional use)

- **MS SPRAY F** is indicated for bonding of resilient floor coverings such as marine rubber, linoleum and similars, to various materials, as wood, steel, aluminum, fiberglass, leveling screed (preliminary tests are recommended), as well as cementitious screeds, ceramic.
- Particularly suitable for the laying of floors subjected to shock and vibration typical of the means of transport and which must meet the classification of fire reaction **HL2 for R10 requirement of NF EN 45545-2:2013**.



TECHNICAL DATA

Polymers and the curing system:	MS Polymer, alcoxy
Consistency:	Paste
Application temperature:	+5°C to +35°C
Specific gravity:	1,4 kg/dm ³
Shore A Hardness (DIN 53505):	35 - 40
100% modulus (DIN 53504):	0,9 - 1,1 MPa
Tensile strength (DIN 53504):	2,0 - 2,5 MPa
Elongation at break:	170 - 280 %
Tear resistance (ASTM D 624-73):	7-8 N/mm
Peel strength 180° (UNI EN 28510/2):	> 50 N/25mm
Skin forming time (20°C/50% R. H.):	50 - 70 approx.
Curing speed (20°C/50% R. H.):	2 - 3 mm after 24 h.

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

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.



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APPROVALS

MS SPRAY F has been tested and certified 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 SPRAY F has been classified "Adhesive for floor composites" HL2 for R10 requirement of NF EN 45545-2:2013 with CREPIM reference 2132/01/245.

METHOD OF USE

Adhesion and surface preparation: surfaces to bond must be dry, clean and free from dust or loose material, oil or grease that may affect the adhesion, floors to be covered have to be flat and levelled enough.

In case of fire retardant wooden planks fixed to a metal frame, typical in the field of transport, provide for an adequate grouting of the hardware and sealing of the joints, sanding if necessary the entire surface to coat (to maintain the fire resistant requirements of the plank use **MS TECHNO FR**).

In the refurbishment of the flooring, after the removal of the old coating, **MS SPRAY F** showed excellent adhesion to some polyurethane based leveling substrates used to eliminate irregularities due to residues of the old adhesives.

Considering the different nature of the substrates it is always recommended a preliminary test.

In the case of floor coverings in cementitious screed, moisture levels of the latter will have to be within the recommended values:

- Usually not more than 75% of relative humidity RH or, according to the used method, max 2% of absolute humidity for cementitious screeds, max 0,5% for anhydrite.
- For substrates with embedded heating acceptable levels of humidity for the installation are respectively 1,8% and 0,3%.

With **MS SPRAY F** is also possible to coat existing ceramic or marble floorings: they have to be well clean, dry and free of grease before applying the adhesive.

Excellent adhesion to metal surfaces which generally must be simply devoid of rust or treated with anti-corrosion protection.

Preliminary tests are recommended to check the compatibility and the possible need of **PRIMER WP**.

On fibreglass it can be enough cleaning with acetone, the best result is obtained sanding and cleaning the dust with acetone before.

Preparation of resilient liner: before installation let to acclimate the coating material to the environment for some hours and relax the internal stresses caused by the packaging; roll out sheets supplied in rolls or at least loosen them.

Adhesive Application: apply the adhesive with a notched trowel getting a such uniform thickness to be covered within 30 minutes at 20°C - 25°C.

Minimum doses are recommended for thin sheaths.

Approximate consumption table	g/m ²	ml/m ²	m ² /kg	m ² /lt
spatula 1 mm. teeth height	700	500	1,4	2,0
spatula 2 mm. teeth height	1.400	1.000	0,7	1,0

After the tooling proceed to the coating installation within 30', and in any case before the skin formation and to perform rolling for adhesive bonding at its best and to release any air bubbles out from under it.

Once completed the rolling, put appropriate wooden planks on the floor to pass without marking the surface since the adhesive is still wet.

Place some weights in order to exert the necessary pressure.

It is recommended to operate in environment temperatures above +5°C.

The final result will be after 24 - 48 hours.

Solvent wiping: traces of **MS SPRAY F** can be cleaned using **SOLVENTE ST 512**.

Cured product can be removed mechanically.

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.



MS SPRAY F

STORAGE STABILITY

- 290 ml. cartridge 18 months from the date of manufacture.
- 600 ml sausage 18 months from the date of manufacture.
- 5 kg pail 12 months from the date of manufacture.
- 25 kg drum 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 viscous during storage.

PACKAGING

Code	Colour	Packaging	pcs./box
1004031	grey	290 ml. cartridge	24

Other sizes available on request.



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