

# MS SUPERFAST

## PRODUCT DESCRIPTION

Air moisture fast curing one-part neutral adhesive-sealant based on **MS Polymer**.

## PRODUCT CHARACTERISTICS

Fast setting, with high cohesive ability immediately after extrusion, has excellent adhesion to a great variety of surfaces. **MS SUPERFAST** produces high-performance seals and elastic joints.

- Solventless and free from isocyanate.
- Virtually not shrinking.
- Flexible at low ( $-40^{\circ}\text{C}$ ) and high ( $+120^{\circ}\text{C}$ ) temperatures.
- Neutral reaction, odourless.
- Very fast curing, the parts can be handled soon after a few hours from bonding.
- Excellent adhesion to glass, metal sheets in automotive, galvanised steel, aluminium and uPVC.
- Very good resistance to ageing and to UV Radiation.
- Overpaintable. Previous testing on compatibility is always recommended.

## TYPICAL APPLICATIONS (professional use)

- Bonding of strengthening ribs on metal plates and fibreglass plates, and generally on most structures subject to continuous vibrations or between materials with very different thermal expansion.
- Bonding of metal, plastic and fibreglass profiles in the assembly of containers, camper, vans and other means of transportation.
- Assembly of insulating panels.
- Gluing of panels made of steel, painted metals, plastic laminate, uPVC and other plastics, to frames and metal structures.
- For bonding overlaps between metal sheets or metals and other surfaces onto which is not possible to realise weldings or mechanical fixing in building, means of transport, metal carpentry.
- For bonding metal profiles (U) onto glasses, plastic sheets, metal panels in refrigeration industry, refrigerators, furnishing, means of transport.
- Insulation and covering of containers and vans.
- High modulus elastic sealant suitable to seal materials sensitive to acid and to plasticizers such as marble, granite, sandstone. Previous testing on compatibility is always recommended.

## 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>Application temperature:</b>	$+5^{\circ}\text{C}$ to $+35^{\circ}\text{C}$
<b>Specific weight:</b>	$1,4 \text{ kg/dm}^3$
<b>Shore A hardness:</b>	55
<b>Modulus 100% (DIN 53504):</b>	1 - $1,5 \text{ MPa}$
<b>Breaking load (DIN 53504):</b>	3 - $3,5 \text{ MPa}$
<b>Elongation at break:</b>	300%
<b>Tear strength (ASTM D 624-73):</b>	18 - $20 \text{ N/mm}$
<b>Skin formation time (<math>20^{\circ}\text{C}</math> @ 50% RH):</b>	approx. 7 min.
<b>Curing speed (<math>20^{\circ}\text{C}</math> @ 50% RH):</b>	4 mm after 24 hrs.

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



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## APPROVALS

**MS SUPERFAST** 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.

## METHOD OF USE

**Adhesion and surface preparation:** **MS SUPERFAST** has a very good primerless adhesion, provided surfaces are free from grease, on steel, galvanised steel, anodised aluminium and aluminium, on painted surfaces in general, on wood, glass and glazed surfaces, polyester and uPVC. For application under severe conditions, such as under extremely wet conditions, or on porous surfaces, the use of a suitable primer can improve adhesion of the sealant.

More detailed informations about surface conditioning are available in the selection chart of "**Primers for MS Sealants**".

**Application:** when used as an **adhesive**, **MS SUPERFAST** can be applied by a hand operated gun or an air gun onto only one part.

Join the parts together within 5 minutes.

When compressed the thickness should be not lower of 1 - 2 mm. in order to allow the correct curing and to exploit the adhesive and cohesive characteristics of the product.

On to big surfaces the adhesive can be applied in parallel lines distant 20 - 40 cm. and along the perimeter.

Cure is realised by humidity, in presence of non porous surfaces it can accelerated by nebulizing the parts by water before assembling.

Put both sides in contact within 5 minutes by using an adequate pressure. If necessary, maintain under pressure the parts until a complete curing.

When used as a **sealant**, any tooling should be carried out within 10 minutes from the application.

**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.

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

Cured product can be removed mechanically.

**Notes:** when using the product in cartridge, the **L/6** pneumatic gun with telescopic piston or the **L/Power** electrical gun are recommended.

Application of the product may be difficult with the use of manual or traditional guns.

## SAFETY AND HEALTH

See Safety Data Sheet.

## STORAGE STABILITY

- 290 ml. cartridge 18 months from the date of manufacture.
- 600 ml bag. 18 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.**



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## PACKAGING

Code	Colour	Packaging	pcs./box
1004951	white	290 ml. cartridge	24
1004603	white	600 ml. sausage	12
1005070	black	290 ml. cartridge	24
1004608	black	600 ml. sausage	12

Other sizes available on request.

