

MS TECHNO

PRODUCT DESCRIPTION

MS TECHNO is a one part, moisture curing high performance adhesive sealant based on **MS POLYMER**.

PRODUCT CHARACTERISTICS

Its high green strength and excellent adhesion to a wide range of surfaces make **MS TECHNO** suitable for durable high performance joints and elastic sealing.

MS TECHNO shows all the characteristics of **MS POLYMER** technology.

- Solventless, isocyanate free.
- Virtually no shrinkage, non slumping.
- Flexible at low (-40°C) and high (+ 100°C) temperatures.
- Odourless, neutral reaction, non corrosive.
- Fast curing.
- Compatible with many painting systems (test suggested before use).
- Excellent adhesion to many substrates.
- High resistance to ageing and UV radiation, suitable for outside and inside applications.
- Pasty, fast setting.

USES (professional)

- Assembling of insulated panels, partition walls.
- Overlap and butt joints between plates, profiles, frames.
- Bonding wood panels and profiles even painted, plasterboard panels, plastic laminate, uPVC to 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.
- Bonding and sealing of ventilation and conditioning ducts.
- For assembling mirrors.
- For bonding stiffening ribs onto metal sheet or fibreglass in structures subjected to vibrations or between materials with different thermal expansion.
- Insulation and covering of containers.

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.
- Non specific for sealing on to marble and natural stone, previous compatibility tests are always recommended.
- Do not use in extreme temperature conditions, or on damp, frozen, contaminated surfaces.
- Do not use on excessively acidic or basic substrates.
- Not to be used in contact with natural copper.
- For any application not listed in this document please contact our Technical Service.

TECHNICAL DATA

Polymers and the curing system:	MS Polymer, alcoxy
Consistency:	Pasty
Application temperature:	+5°C / +35°C
Specific weight:	1,55 kg/dm ³
Shore A hardness:	55 - 60
Modulus 100% (DIN 53504):	2 MPa
Breaking load (DIN 53504):	3 MPa
Elongation at break:	250%
Tear strength (ASTM D 624-73):	17 N/mm
Skin formation time (20°C @ 50% RH):	10 min.ca.
Curing speed (20°C @ 50% RH):	2,5 mm. / 24 h.

Values given in this table must not be considered as specifications.



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APPROVALS

MS TECHNO 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.

METHOD OF USE

Adhesion and surface preparation: MS TECHNO has an excellent primerless adhesion to degreased surfaces of steel, galvanised steel, anodized aluminium, to painted surfaces, to concrete, wood, glass, ceramics, GRP, uPVC.

In particular conditions, i.e. humidity and porous surfaces, the adhesion can be improved by application of a suitable primer.

More detailed information on surface preparation are contained in the selection chart "Primer for MS sealants".

Used as adhesive: MS TECHNO can be applied by gun onto only one part. Join the parts together within 10' - 15' exerting a light pressure.

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

Used as a sealant: the product is suitable for joints submitted to small movements only.

Insert a non-adhesive back up material in deep joints.

Apply a continuous bead by using an adequate pressure and avoid air entrapping.

Tool with a wet spatula.

Paintability: please note that overpainting can modify the elastic properties of the sealant surface and so its ability to accommodate the movements of the joint. The compatibility of the sealant with the paint has to be previously verified by test.

It is recommended to apply the paint when the sealant is completely cured. It assures the best results, also esthetically.

Solvent wiping: dirty tools can be solvent wiped with Solvente ST/512.

After curing MS TECHNO can be removed only mechanically.

SAFETY AND HEALTH

See Safety Data Sheet.

STORAGE STABILITY

290 ml. cartridge 18 months from the date of manufacture.

80 ml tube 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
1004316	white	290 ml. cartridge	24
1004016	grey	290 ml. cartridge	24
1004021	black	290 ml. cartridge	24
1004829	white	80 ml. tube	24

* Other sizes available on request



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