

MS TECHNO PRO LINE

PRODUCT DESCRIPTION

One part, moisture curing sealant based on **MS POLYMER**.

PRODUCT CHARACTERISTICS

Solventless, isocyanate free, suitable for high performance joints and elastic sealing.
Excellent adhesion to many substrates without Primer, flexible in the long run.
High resistance to UV radiation and weather conditions, permanently elastic in the range -40° C/+100°C.
Non slumping, the application can be made along the vertical, almost no shrinkage.
It can be painted soon after application.

Available in two grades different for both properties and method of uses:

- **TECHNO PRO SEAL** with high elongation, for joints subjected to continuous movement.
- **TECHNO PRO** assembling sealant for elastic, structural sealing, with a wide range of adhesions.

TECHNO PRO

- In bodywork for sealing and fixing panels and metal sheets.
- For sealing stiffening ribs on to structures subjected to vibrations, or with material with different thermal expansions.
- For insulating and covering containers or vans.
- For bonding wood metal in door and window frames.
- For bonding overlaps between sheets or metals and other surfaces where mechanical fixing or welding is not allowed, in transport, metal carpentry.
- For bonding and sealing ventilation and conditioning ducts.
- For bonding metal profiles (U) onto glasses, plastic sheets, metal panels in refrigeration industry, refrigerators, furnishing, means of transport.
- For bonding wood panels and profiles even painted, plasterboard panels, plastic laminate, uPVC to walls, metal structures.
- For bonding overlap and butt joints between plates, profiles, frames.
- For assembling insulated panels, partition walls.
- For mirror installation.

TECHNO PRO SEAL

- For sealing means of transport as campers, boats, insulating vans and industrial bodies.
- For sealing metal sheets, drainpipes, high performance boards, insulating panels.
- For bonding wood and metal in door and window frames, front gates, skips.
- For sealing cement, concrete, plasterboard, walls, bricks, tiles, ceramic, glass, galvanized sheet, painted sheet, anodised and painted aluminium, uPVC, ABS, fiberglass, wood, polystyrene, polyurethane foam.

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

	MS TECHNO PRO	MS TECHNO PRO SEAL
Polymers and the curing system:	MS Polymer, alcoxy	
Consistency:	Pasty	
Application temperature:	+5°C / +35°C	
Specific weight:	1,55 kg/dm ³	1,58 kg/dm ³
Shore A hardness:	55 - 60	40
Modulus 100% (DIN 53504):	2 MPa	0,7 MPa
Breaking load (DIN 53504):	3 MPa	1,7 MPa
Elongation at break:	250%	500%
Tear strength (ASTM D 624-73):	17 N/mm	10 N/mm
Skin formation time (20°C @ 50% RH):	10 minutes approx.	10 - 15 minutes approx.
Curing speed (20°C @ 50% RH):	2,5 mm. / 24 h.	2 - 3 mm. / 24 h.

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



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APPROVALS

MS TECHNO PRO and **MS TECHNO PRO SEAL** have 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 TECHNO PRO has been examined by **ISEGA** and judged suitable for sealing walls and floors in manufacturing units where foodstuffs are processed, with the exception of direct contact between food and sealant.

METHOD OF USE

Adhesion and surface preparation: **MS TECHNO PRO** 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 can be found in the "**Primer for MS sealants**" sheet.

Application of sealant: used as adhesive **MS TECHNO PRO** 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.

Joint dimensions (see picture): a well dimensioned joint ensure an excellent movement accommodation for the sealant and so long life and efficiency of the joint.

Joints designed to accommodate movement must be compatible in size and shape with the elongation capacity of the sealant.

Rectangular sections with joint depth lower than width and two-side adhesion reduce the risk of tearing by severe stress.

For a correct dimensioning of a joint section and for avoiding the adhesion to the third side insert into the joint back **FILTENE**, a closed cell polyethylene foam backer rod for joints.

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.

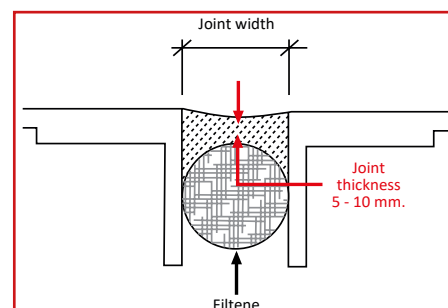
The compatibility of the sealant with the paint has to be previously verified by test.

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 PRO** can be removed only mechanically.



SAFETY AND HEALTH

See Safety Data Sheet.



MS TECHNO PRO LINE

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 viscose during storage.

PACKAGING

Product	Code	Colour	Packaging	pcs./box
MS TECHNO PRO	1004495	white	290 ml. cartridge	24
MS TECHNO PRO	1004496	grey	290 ml. cartridge	24
MS TECHNO PRO	1004476	black	300 ml. cartridge	24
MS TECHNO PRO	1004648	white	600 ml. sausage	12
MS TECHNO PRO	1004649	grey	600 ml. sausage	12
MS TECHNO PRO	1004650	black	600 ml. sausage	12
MS TECHNO PRO SEAL	1004584	black	600 ml. sausage	12

Other sizes available on request.



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