

MS TECHNO SEAL

PRODUCT DESCRIPTION

A neutral, MS Polymer-based, one-component sealant with rapid ambient humidity curing.

PRODUCT CHARACTERISTICS

For general use, with excellent adhesion to a large variety of surfaces, **MS TECHNO SEAL** is suitable for sealing and bonding both indoors and outdoors.

- Pasty, non-drip, it is permanently flexible and elastic.
- Solvent and isocyanate-free, odourless.
- Practically no shrinkage.
- Neutral reaction.
- Fast polymerisation, skin formation time 10/15 min.
- High degree of stretch.
- Permanently elastic from -40°C to +100°C.
- Excellent resistance to ageing, water and UV radiation.
- Can be painted a short time after application.
- Very short setting times.
- Easy application.
- Cartridge reusable for several months with a simple nozzle change.

USES (professional)

- Sealing of cement, concrete, plasterboard, masonry, bricks, tiles, ceramics, glass, galvanised sheet metal, painted sheet metal, stainless steel, anodised and painted aluminium, uPVC, ABS, fibreglass, wood, polystyrene, and polyurethane foam.
- Installation of sheet metal and gutters, infill panels, insulating coverings; sealing of doors, external doors, bins; sealing of metal/wood carpentry subject to a lot of movement; sealing in transport vehicles such as motorhomes, boats and industrial bodies.

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.

TECHNICAL DATA

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

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



MS TECHNO SEAL

APPROVALS

MS TECHNO SEAL 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 SEAL has excellent adhesion without the use of **Primer** on degreased surfaces of steel, galvanised steel, anodised aluminium, aluminium, on painted surfaces in general, on concrete, wood, glass and vitrified surfaces, ceramics, polyester, and UPVC. For application under special conditions, such as the presence of moisture, or on porous surfaces, the adhesion can be improved with the application of a suitable primer.

More detailed information on surface preparation can be found in the "**Primer for MS sealants**" sheet.

Application of sealant: apply the sealant continuously by exerting adequate pressure against the walls of the joint. The sealant can be finished or smoothed within approximately 10 – 15 minutes of application.

Joint dimensions: a correctly made joint ensures maximum absorption capacity of movements by the sealant and therefore long life and efficiency of the sealant.

Joints subject to movement must have dimensions and shape compatible with the elongation capacity of the sealant: rectangular sections with a depth less than the width and grip only on the side walls, minimise stresses on the adhesion and the risk of tearing.

For a correct dimensioning of the section and to prevent the sealant from adhering to the third wall, it is recommended to insert **FILTENE**, non-stick polyethylene foam profile, in the base of the joint.

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 SEAL** can be removed only mechanically.

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.

PACKAGING

Code	Colour	Packaging	pcs./box
1004446	grey	290 ml. cartridge	24
1004457	white	290 ml. cartridge	24

* Other sizes available on request



Fratelli Zucchini S.p.A.

Via C. Colombo, 6

44124 Ferrara - Italy

Tel. +39 0532 782711

Fax +39 0532 732121

info@zucchini.it

www.zucchini.it

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =



All recommendations relating to application and use of Fratelli Zucchini S.p.A. products have been given based on Fratelli Zucchini S.p.A. knowledge and experience, for products appropriately stored, handled and applied in suitable conditions, as indicated in their respective Technical Datasheets. The variability of materials, substrates and conditions of use is such that no warranty of their functionality for a specific application can be deducted from this information, written or verbal recommendation or any other type of suggestion offered. Each user has the responsibility to complete adequate evaluations on the efficacy of the materials offered by Fratelli Zucchini S.p.A., of its products, services, recommendations and suggestions for the specific application need, and must accomplish sufficient testing to ascertain that the final product will be safe and sound for the final intent of the end-user. Fratelli Zucchini S.p.A., therefore, cannot be fit considered liable for any damage, direct or indirect even for possible wrong, incorrect and unfit use of the products.