

MS SPECIAL N

PRODUCT DESCRIPTION

One part, moisture curing sealant based on MS Polymer™.

PRODUCT CHARACTERISTICS

Low modulus, high elasticity and excellent adhesion on a great variety of materials make **MS Special N** suitable for durable sealing of joints subject to movement.

MS Special N shows all the characteristics of MS Polymer™ technology.

- Solvent and isocyanate free.
- Virtually no shrinkage.
- Flexible at low (-40°C) and high (+100°C) temperatures.
- Neutral curing, odourless.
- Fast curing.
- Overpaintability with all the water based paints usually used in the building industry, and other industrial painting systems. The compatibility should be checked by preliminary trials.
- Excellent adhesion on a large variety of substrates.
- High aging and UV resistance.

USES (professional)

- Sealing of expansion joints.
- Sealing of window frames (wood, uPVC, aluminium).
- Sealing of partition walls.
- Elastic sealing on components of structures made of different materials such as galvanized steel, aluminium, wood, polyester and most plastics.
- Sealing of metal carpentry.



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 to be used in contact with natural copper. In case use our silicone sealants **BISIL F**, **FLEX EDIL N**, **SER 2000**.

TECHNICAL DATA

Polymers and the curing system:	MS Polymer, alcoxy
Consistency:	Paste
Application temperature:	+5°C to +35°C
Specific gravity:	1,5 kg/dm ³
Shore A Hardness (DIN 53505):	25
100% modulus (ISO 8339):	0,35 MPa - <0,6 MPa at -20°C
Tensile strength (ISO 8339):	0,70 MPa
Elongation at break (ISO 8339):	350% - 400%
Elastic recovery (ISO 7389):	>70% (by extension of 100%)
Movement capability:	± 25%
Tear resistance (ASTM D 624-73):	7 N/mm
Skin forming time (20°C/50% R.H.):	20 min. approx.
Curing speed (20°C/50% R.H.):	2,5 mm after 24 h.
Adhesion/cohesion at variable temperatures (ISO 9047):	NF

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



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APPROVALS

MS SPECIAL N 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 SPECIAL N has been examined by ISEGA and judged suitable for sealing walls and floors in manufacturing units where food-stuffs are processed, with the exception of direct contact between food and sealant.

Standard compliance



EN 15651-1: F-EXT-INT CLASS – 25 LM

Sealant for façade for interior and exterior application, intended for use in cold climates.

METHOD OF USE

Adhesion and surface preparation: MS SPECIAL N has a very good primerless adhesion on anodized aluminum, galvanised steel, glass uPVC, fibreglass provided they are free from grease.

On aluminum, galvanised steel, painted surfaces, porous surfaces like concrete and bricks, the use of a suitable primer can improve adhesion of the sealant:

- **Primer WP** for metals, painted surfaces.
- **Primer 13** for metals, painted surfaces.
- **Primer LM/BV** for porous surfaces.

Application of sealant: MS SPECIAL N can be extruded by using an hand operated gun or an air gun in a temperature range between +5°C/+35°C.

Apply the sealant extruding continuously and practise a suitable pressure against the sides of the joint.

Tooling should be carried out within 10-15 minutes from the application.

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.

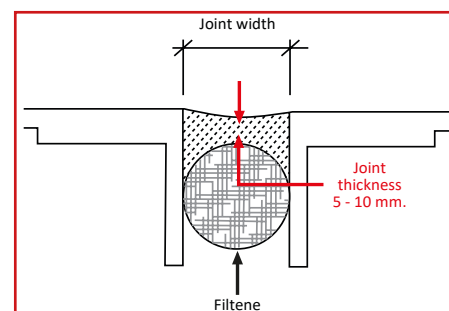
Rectangular sections with joint depth lower than width and two-side adhesion reduce the risk of tearing by severe stress.

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 SPECIAL N can be removed only mechanically.



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SAFETY AND HEALTH

See Safety Data Sheet.

STORAGE STABILITY

300 ml. cartridge 12 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

Code	Colour	Packaging	pcs./box
1004581	grey	300 ml. cartridge	24
1004433	grey	600 ml. sausage	12
1004582	white	300 ml. cartridge	24
1004438	white	600 ml. sausage	12
1004583	dark brown	300 ml. cartridge	24
1004448 *	dark brown	600 ml. sausage	12
1004584	anthracite grey	300 ml. cartridge	24
1004585	oxide red	300 ml. cartridge	24
1004586	moss green	300 ml. cartridge	24
1004588	light grey	290 ml. cartridge	24
1004450 *	light grey	600 ml. sausage	12

* Available on request. 25 Kg. drums and other colours in 600 ml. sausages available on request.



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

