

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

- Not indicated for sealing joints for longterm use under water, not suitable for use in food contact applications, materials bleeding oily matters or plasticizers
- The sealant is not recommended for use in totally confined spaces not exposed to air moisture
- It should not be used in contact with natural stones, in case previously compatibility testing is always recommended.
- Not to be used under extreme temperature conditions, on to painted, frost, contaminated surfaces, not to apply on to overly basic or acid substrates.
- Not to be used in contact with natural copper. In case use our silicone sealants **Bisil F**, **Bisil Lamiera**, **Flexedil N**, **Ser 2000**.

TECHNICAL DATA

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 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 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: 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.

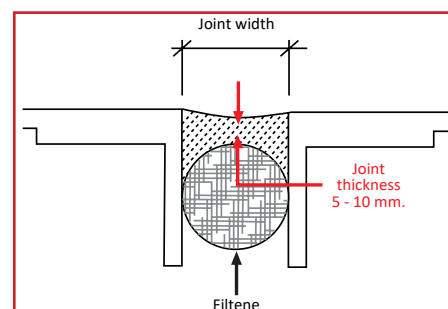
Rectangular sections with joint depth lower than width and two-side adhesion reduce the risk of tearing by severe stress.

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/513**. After curing **MS SPECIAL N** can be removed only mechanically.

SAFETY AND HEALTH

See Safety Data Sheet.

STORAGE STABILITY

18 months (290 ml. cartridge and 600 ml. sausage), 12 months (25 Kg. drum) for the product stored in the original sealed pack at a temperature range from + 5°C to + 25°C.

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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
1004587	copper	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.