

TECHNICAL DATA

Polymers and the curing system:	MS Polymer, alcoxy
Consistency:	Paste
Application temperature:	+5°C to +35°C
Specific weight:	1,4 kg/dm ³
Shore A hardness:	50 - 55
Modulus 100% (DIN 53504):	1,3 - 1,6 MPa
Tensile Strength (DIN 53504):	3 - 3,5 MPa
Elongation at break:	350 - 400%
Tear strength (ASTM D 624-73):	10 - 15 N/mm
Skin formation time (20°C @ 50% RH):	approx. 10 min.
Curing speed (20°C @ 50% RH):	3 - 4 mm after 24 hrs.

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

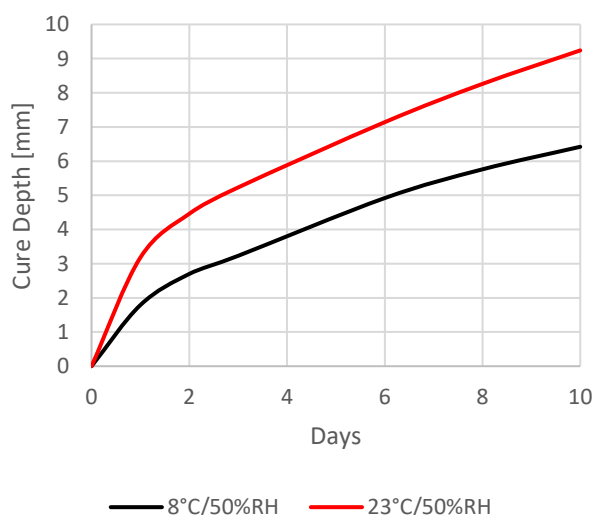
PRODUCT DESCRIPTION

Air moisture fast curing one-part neutral sealant based on MS Polymer™.

PRODUCT CHARACTERISTICS

Permanent elasticity and flexibility combined with excellent adhesion to a great variety of surfaces and with a high cohesion make **MS SUPER** suitable for making high-performance seals and elastic joints. Reduced skin-forming time, rapid progression of the curing from the surface towards the inside of the joint and oven paintability at high temperatures make **MS SUPER** the ideal sealant for coachwork and metal construction.

A graph of the cross-linking depth as a function of temperature and ambient humidity is shown below.



MS SUPER possesses all the special characteristics of MS Polymer™ Technology:

- Solventless and free from isocyanate.
- Virtually no shrinking.
- Flexible at low (-40°C) and high (+120°C) temperatures.

- Neutral reaction, odourless.
- Very fast curing.
- Compatible with most paints systems.
- Overpaintable soon after skin formation, without any negative effects on hardening of the sealant and the properties of the paint.
- Possibility of systematic use in industrial premises where painting operations are performed.
- Very good adhesion to a wide number of substrates.
- Very good resistance to ageing and to UV Radiation.

PROFESSIONAL USES

- Sealing between welded plates and overlapped plates in the automotive industry and the construction and repair of coach and car bodywork.
- For wood and metal joints with elastic properties in the freezing industry and the construction of containers for transport.
- Assembly of insulating panels.
- Gluing and sealing with very good resistance to vibration on components made of steel, aluminium, wood, GRP and other plastic materials, painted surfaces on buses, panelled vehicles, campers and caravans.
- For sealing between steel structural work components.
- For sealing between metal and glass in paint cabins.
- For the installation of appliances in kitchen furniture.
- For metalwork application.
- High modulus elastic sealant suitable to seal materials sensitive to acid and to plasticizers such as marble, granite, sandstone. Previous testing on compatibility is always recommended.

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.

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- 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

APPROVALS

- **MS SUPER** was tested and ranked second by **EUROFINS**: Indoor Air Comfort GOLD 6.0 of February 2017.
- **MS SUPER** complies with the requirements of **UNI EN 45545-2:2020** for hazard levels **HL1 – HL2 – HL3** requirements set **R1** and **R7**.

METHOD OF USE

Adhesion and surface preparation: **MS SUPER** has a very good primerless adhesion, provided surfaces are free from grease, on steel, galvanised steel, anodised aluminium and aluminium, on painted surfaces in general, on wood, glass and glazed surfaces, polyester and UPVC. For applications under severe conditions, such as under extremely wet conditions, or on porous surfaces, the use of a suitable primer can improve adhesion of sealant. More detailed information about surface conditioning are available in the selection chart of “**Primers for MS Sealants**”. **MS SUPER** has a good adhesion on polyurethane sealants, so it can be used in resealing joints where the complete removal of the old sealant is impossible. For this type of application, which in any case is advisable for joints subjected to limited dynamic stress, previous testing to determine compatibility is recommended.

Application of sealant: **MS SUPER** can be extruded by using a hand operated gun or an air gun at a temperature range between +5°C/+35°C. Since the hardening takes place due to moisture, to speed up the process, especially for bonding nonporous materials, it is possible to humidify the parts spraying water before assembling. Join under adequate pressure spoon immediately. If necessary, maintain pressure on the glued parts until it has developed the adhesive set. Smooth within 10 minutes. About 30' after application the sealant can be overpainted without causing delays in curing time. In painting the best results are obtained if the paint is applied in the 6 hours following the application.

Solvent wiping: traces of **MS SUPER** can be cleaned using Solvente **ST 512**. Cured product can be removed mechanically.

Paintability: it should be kept in mind that any overpainting can modify the surface elastic properties of the sealant and its ability to flex with movement and may compromise the functionality of the joint. The compatibility of the sealant with the paint must first be verified by testing. Aesthetically pleasing results can generally be achieved by applying the paint after the sealant has hardened completely.

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
1004113	white	290 ml. cartridge	24
1004112	grey	290 ml. cartridge	24
1004124	black	290 ml. cartridge	24
1004601	grey	600 ml. sausage	12
1004600	white	600 ml. sausage	12
1004615	black	600 ml. sausage	12

Other sizes available on request

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