



POLY-MAR MS 953

FIRE RESISTANT ADHESIVE-SEALANT

Revision: 17/07/2026

TECHNICAL DATA

Polymers and the curing system:	MS Polymer™, alcoxy
Consistency:	Paste
Application temperature:	+5°C / +35°C
Specific weight:	1,5 kg/dm ³
Shore A hardness (ASTM D2240-15):	53 Shore A
Modulus 100% (DIN 53504):	2,3 MPa
Tensile Strength (DIN 53504):	3,0 MPa
Elongation at break (DIN 53504):	180%
Tear strength (ASTM D 624-73):	10 N/mm
Skin formation time (20°C @ 50% R.H.):	approx. 10 - 20 min.
Curing speed (20°C @ 50% R.H.):	2 - 3 mm after 24 hrs.

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

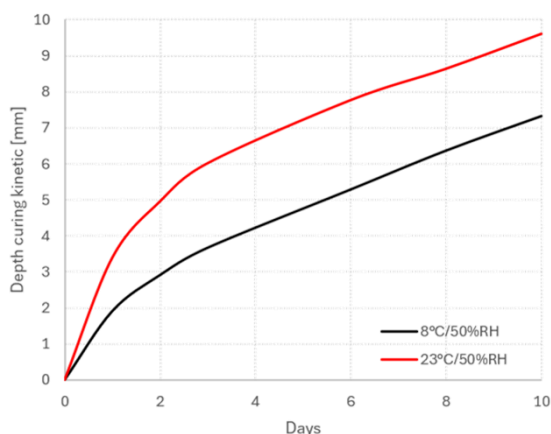
PRODUCT DESCRIPTION

One-part neutral moisture curing fire resistant adhesive-sealant based on **MS Polymer™**.

The product is solventless and isocyanate-free.

PRODUCT CHARACTERISTICS

- Low flame spread.
- Hazardous substances free in case of fire.
- Thixotropic, the product can be applied up-right down.
- Neutral, odourless, solventless and isocyanate free, safety in use.
- Almost no shrinkage after drying.
- Good resistance to ageing and UV-rays.
- Since product polymerizes with moisture, the kinetic of curing is strongly influenced by atmospheric condition (see Graph 1).



Graph 1 Curing kinetics of POLY-MAR MS 953.

PROFESSIONAL USES

- For sealing pipe routing.
- For assembling fire doors.
- For sealing refrigerating rooms.

LIMITATIONS

- Not suitable for application in water continuous immersion.
- 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 into contact with food, or with materials that ooze oily substances or plasticizers.

Fratelli Zucchini S.p.A.

Via C. Colombo, 6
44124 Ferrara - Italy
Tel. +39 0532 782711 - info@zucchini.it - www.zucchini.it

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- It must not be applied in completely enclosed spaces, free from exposure to atmospheric humidity.
- Do not use it in extreme temperature conditions, or on damp, frozen, contaminated surfaces.
- Do not use on excessively acidic or basic substrates.
- Do not apply it on natural copper.
- Not to be used in direct contact with teak oil or similar.
- For any application not listed in this document please contact our Technical Service.

APPROVALS

POLY-MAR MS 953 has been certified in accordance with Module-B of Dir.96/98/EC and amended as **SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS: COVERINGS FOR FLOORS AND ADHESIVES USED IN THE CONSTRUCTION OF "A", "B" & "C" CLASS DIVISIONS. MED/3.18 (c) - MED/3.18 (e).** Certificate 0987/MED-B/1011.

POLY-MAR MS 953 has been certified in accordance with **Modulo-D** of Dir.2014/90/EU e Reg. (EU) 2022/1157, NO. MEDD000003U del DNV.

Issued 13-09-2023 and valid until 03-07-2028.

Applications / Limitations of use

The material fulfils the requirements of FTP Code (2010) Annex 1, Part 2 and 5. Calorific value to be less than 45 MJ/m² when required.

The compliance is valid for:

1. All the colours.
2. The weight of 298 g/m² (to which a tolerance of $\pm$ 5% may be applied).

METHOD OF USE

Adhesion and surface preparation: POLY-MAR MS 953 allows excellent adhesion without the use of Primer on the degreased surfaces of steel, galvanized steel, anodized aluminum, aluminum, concrete, wood, glass and glazed surfaces, ceramic, polyester, UPVC.

On painted surfaces you should check whether you need **Primer WPX**.

For special operating conditions, such as the presence of moisture, or on porous surfaces, the adhesion can be improved by applying a specific primer.

More detailed information on surface preparation is contained in the selection chart "**Primer for MS sealants – Marine Division**".

Application as adhesive/sealant: POLY-MAR MS 953 can be applied by gun on one of the surfaces to be bonded. Then, within 10 - 15 minutes, join together both surfaces with a light pressure.

To allow the proper curing of the adhesive and exploit the most cohesive and adhesive properties, the right thickness after pressing should be not less than 2 mm.

When bonding large surfaces, the adhesive can be applied in a discontinuous way in parallel curbs 20 - 40 cm away the one from the other, and along the perimeter, in proper section to fill any irregularities.

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 within 5 minutes. If necessary, maintain pressure on the glued parts until it has developed the adhesive set. In the case of use for finishing sealing, smooth within 10 minutes.

Paintability: the product is paintable. However, 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. 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.

Solvent wiping: tools with traces of **POLY-MAR MS 953** can be cleaned using **Solvente ST/512**.

When product is completely polymerized, it can be removed mechanically.

SAFETY AND HEALTH

Refer to Safety Data Sheet.

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STORAGE STABILITY

- 290 ml. cartridge 18 months from the date of manufacture.
- 600 ml. sausage 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 AVAILABLE

Code	Colour	Size	Pcs. /Box
1020015	Grey	290 ml cartridge	24

Other formats available on request.

For further information please visit www.poly-mar.com

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