

# PRODUCT DESCRIPTION

POLYAMAR

Fire resistant adhesive/sealant, based on MS Polymer.

# **PRODUCT CHARACTERISTICS**

- Low flame spread.
- Hazardous substances free in case of fire.
- Thixotropic, the product can be applied up-right down.
- Isocyanate free, solventless
- After dry almost no shrinkage.

## TYPICAL APPLICATIONS (professional use)

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

# **TECHNICAL DATA**

Consistency:PasteApplication temperature:+5°C to +35°CSpecific weight:1,5 kg/dm³Shore A hardness:53Modulus 100% (DIN 53504):2,3 MPa (DIN 53504)Breaking load (DIN 53504):3,0 MPa (DIN 53504)Elongation at break:180%Tear strength (ASTM D 624-73):10 N/mm (ASTM D 624-73)Skin formation time (20°C @ 50% RH):approx. 10 - 20 min.		
Application temperature:         +5°C to +35°C           Specific weight:         1,5 kg/dm³           Shore A hardness:         53           Modulus 100% (DIN 53504):         2,3 MPa (DIN 53504)           Breaking load (DIN 53504):         3,0 MPa (DIN 53504)           Elongation at break:         180%           Tear strength (ASTM D 624-73):         10 N/mm (ASTM D 624-73)           Skin formation time (20°C @ 50% RH):         approx. 10 - 20 min.	Polymers and the curing system:	MS Polymer, alcoxy
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	Tear strength (ASTM D 624-73):	10 N/mm (ASTM D 624-73)
Curing speed (20°C @ 50% RH): 2 - 3 mm after 24 hrs.	Skin formation time (20°C @ 50% RH):	approx. 10 - 20 min.
	Curing speed (20°C @ 50% RH):	2 - 3 mm after 24 hrs.

The values in this table must not be considered as specifications.



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#### APPROVALS



"Surface materials and floor coverings with low flame-spread characteristics":
Decorative veneers, floor coverings and adhesives used in the construction of "A", "B" & "C" class divisions
MED: A.1/3.18 (a) (c) (e)
Certificate n°0987 MED B/620 REV.1
MS 953 has been certified in accordance with Module-D of Dir.2014/90/EU e Reg.(EU) 2022/1157, NO.MEDD000003U by DNV.
Issued 13-09-2023 e valid until 03-07-2028.

NB 0575

#### **METHOD OF USE**

Adhesion and surface preparation: 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 WP**.

For special operating conditions, such as the presence of moisture, or on porous surfaces, the adhesion can improved by applying a special primer. More detailed information on surface preparation are contained in the selection chart "**Primer for MS sealants**".

MS 953 has been certified in accordance with Module-B of Dir.96/98/EC and amended as:

MS 953 can be applied by gun on one of the surfaces to be bonded. The coupling under light pressure should be performed within 10 - 15 minutes from the application.

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 1 - 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: 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.

**Solvent wiping:** traces of **MS 953** can be cleaned using **Solvente ST 512**. Cured product can be removed 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 viscose during storage.

### PACKAGING

Code	Colour	Packaging	Unit
1020015	Grey	290 ml cartridge	24

Other sizes available on request

#### 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 plasticizers.
- 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.
- Not to be used in direct contact with teak oil or similar.

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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 recommendations and 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.