



POLY-MAR MS 960

STRUCTURAL ADHESIVE-FOR BOAT GLAZING PANELS

Revision: 24/07/2026

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):	60 Shore A
Modulus 100% (DIN 53504):	2,3 MPa
Tensile Strength (DIN 53504):	3,0 MPa
Elongation at break (DIN 53504):	300%
Tear strength (ASTM D 624-73):	18 N/mm
Skin formation time (20°C @ 50% R.H.):	approx.35 min.
Curing speed (20°C @ 50% R.H.):	3 mm after 24 hrs.

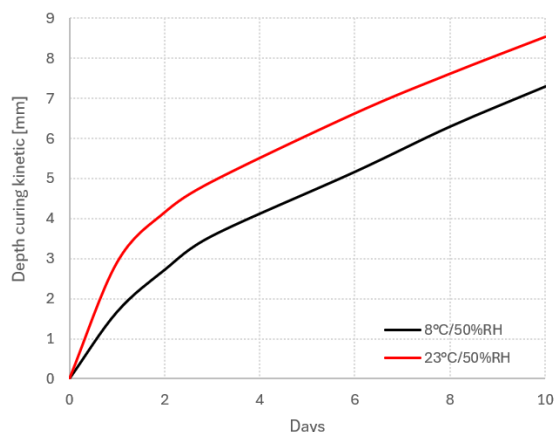
Values given in this table must not be considered as specifications.

PRODUCT DESCRIPTION

One-part neutral moisture curing structural adhesive based on **MS Polymer™** especially designed for bonding boat glazing panels. The product is solventless and isocyanate-free.

PRODUCT CHARACTERISTICS

- High viscosity and high initial grip.
- Almost no shrinkage.
- Permanently elastic at a temperature ranging from -40°C to +120°C.
- Solventless and isocyanates free.
- Neutral reaction, odourless.
- To be used in combination with the darkening **Primer GX** on uncoated glasses.
- Very good resistance to UV rays.
- Open time is suitable for high-dimensioned glass windows.
- Very good resistance to ageing and UV rays.
- Rapid curing: bonding parts can be handled a few hours after assembly.
- Excellent primerless adhesion on windscreens and on a wide range of materials commonly used in shipyards, such as zinc coated sheets, aluminium, fiberglass, stainless steel.
- Since product polymerizes with moisture, the kinetic of depth curing is strongly influenced by atmospheric condition (see Graph 1).



Graph 1 Depth curing kinetics of POLY-MAR MS 960.

PROFESSIONAL USES

- For sealing of glasses.
- For sealing plexiglass (previous technical testing is always recommended).

LIMITATIONS

- Not suitable for applications 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.

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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 960 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 960 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 292 g/m² (to which a tolerance of $\pm$ 5% may be applied).

POLY-MAR MS 960 is in compliance with the applicable requirements of the RINA type approval system. **TYPE APPROVAL CERTIFICATE N° DIP138724CS/001.**

METHOD OF USE

Adhesion and surface preparation: **POLY-MAR MS 960** can be primerless applied onto ceramic coated glass, painted metals and onto cleaned and degreased unpainted metals.

The optimal temperature application is between 15°C-35°C. At below temperature, the viscosity of product increases,

then, before applying the adhesive, it is suggested to heat it up to room temperature.

For perfect cleaning of the bonding surfaces, see the following specific instructions:

- **Coated metal sheet and aluminium:** it is necessary a preliminary cleaning with **Solvente Pulitore E** or **Solvente ST/513**
In case of special temperature range, humidity and working load conditions, it is recommended a cleaning treatment with **Primer WPX** or **Primer 13**, using a proper buffer.
- **Glass without ceramic coating:** it is necessary a preliminary treatment with **Primer GX**, at least 30 minutes before the sealant application, using a suitable felt pad.
- **Fiberglass, GRP:** it is necessary a cleaning treatment with **Solvente ST/121**. If required, apply a preliminary medium-fine sanding.

More detailed information about surface conditioning is available in the selection chart of "**Primers for MS Sealants – Marine Division**" and can be required to Technical Service.

Application: apply a bead of sealant either to the glass or to the aperture, then place the windscreen in its exact position within 10 - 15 minutes. It is important to know that at high temperature and relative humidity the open time decreases significantly. Then, before joining the surfaces, it is necessary to verify that the skin is not formed.

In case **POLY-MAR MS 960** is applied as joint filler, remove the exceeding product using a spatula, spray the surface with plenty of soapy water and then smooth the sealant.

Notes: to make application easier and for a better aesthetic result, when using the product in cartridge, the Zucchini's **L/6** pneumatic gun with telescopic piston or the **L/POWER PRO** electrical gun are recommended (see brochure).

Application of the product may be difficult with the use of manual or traditional guns.

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 and may compromise the functionality of the joint.

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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 960** 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.

STORAGE STABILITY

- 290 ml. cartridge 12 months from the date of manufacture.
- 600 ml. sausage 12 months from the date of manufacture.
- 25 Kg. drum 9 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
1020020	Black	290 ml Cartridge	24
1020021	Black	600 ml Sausage	12

Other formats available on request.

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

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