



POLY-MAR MS 945

SEALANT FOR EXPANSION JOINT FOR TEAK DECKS

Revision: 15/07/2026

TECHNICAL DATA

Polymers and the curing system:	MS Polymer™, alcoxy
Consistency:	Paste
Application temperature:	+5°C / +35°C
Specific weight:	1,55 kg/dm ³
Shore A hardness (ASTM D2240-15):	45 Shore A
Modulus 100% (DIN 53504):	1,3 - 1,6 MPa
Tensile Strength (DIN 53504):	2,6 MPa
Elongation at break (DIN 53504):	500%
Tear strength (ASTM D 624-73):	20 N/mm
Skin formation time (20°C @ 50% R.H.):	approx. 18 min.
Curing speed (20°C @ 50% R.H.):	2 - 3 mm after 24 hrs

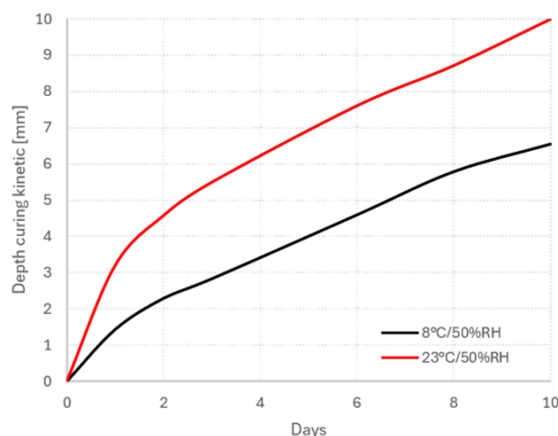
Values given in this table must not be considered as specifications.

PRODUCT DESCRIPTION

One-part neutral, fast moisture curing sealant, based on **MS Polymer™**. After curing the product reveals high elastic properties and excellent UV rays and humidity resistance. The product is solventless and isocyanate-free.

PRODUCT CHARACTERISTICS

- Solventless and isocyanates free.
- After drying, no shrinkage and no bubble formation.
- Flexible at low (-40°C) and high (+100°C) temperatures.
- Neutral, odourless, safe in use.
- Compatible with most paints systems.
- It can be sanded and cutted after complete polymerisation (the kinetic of curing depends on atmospheric condition).
- Good adhesion to wood, metals, fiberglass, properly treated.
- Excellent resistance to UV rays and to salt water.
- 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 945.

PROFESSIONAL USES

- Expansion joint for teak decks.

LIMITATIONS

- 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.
- 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.

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- Do not use on excessively acidic or basic substrates. Do not apply 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 945 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 945 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:

- All the colours.
- The weight of 320 g/m² (to which a tolerance of $\pm$ 5% may be applied).

METHOD OF USE

Adhesion and surface preparation: the surfaces must be dry, clean and degreased, free from dust.

The wood must be pre-treated with **Primer LM/BV**, applying a quantity of primer equal to approximately **5 $\pm$ 1%** of the **POLY-MAR MS 945** used.

Joints subject to movement, to maximize the elastic properties of the sealant, it is advisable to apply non-stick tape to the bottom of the joint after treating with Primer LM/BV.

Product application and deck refining: apply the sealant by using an air or hand-gun to fill the joint just to exceed it lightly.

Then compress the extra product with a spatula to ensure the complete filling.

Best results are achieved by operating at temperatures not lower than +5°C, allowing Primer LM/BV to be completely dry. At room temperature, Primer LM/BV is completely dried after at least 40 minutes.

It is recommended to remove the exceeding sealant after complete hardening by using a knife. That's to avoid adverse effects on sealing.

Best results are achieved after about one week of ageing at a constant temperature not lower than +20°C.

Sanding should have to be done lengthwise the joints using belt or orbital sanders, abrasive paper grit 80 at the beginning, 120 grit to finish.

Overpainting only after a few weeks from sealing; it is always recommended to prior test compatibility of paint treatment.

Chemical resistance: **POLY-MAR MS 945** has good resistance to water and marine environment.

Daily water washing, in warm climate, allows the wood to remain in proper condition enough for good deck maintenance.

Oily products are not recommended, in any case prior testing in small areas is suggested.

Regarding cleaners, it is suggested to only use liquid soaps for domestic use diluted with water, then carefully rinse off.

Strongly advise against aggressive cleaners, whitening products, bleach, caustic soda and do not clean with pressure washer.

Only short time and brief contact with petrol.

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 945** can be cleaned using **Solvente ST/512**. When product is completely polymerized, it can be removed mechanically.

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CAULKING MAINTENANCE

- Regular washing with water, even daily in hot climates, keeps the wood at the correct humidity level and is normally sufficient for good deck maintenance.
- The use of oily substances is not recommended and should in any case be tested beforehand in small areas.
- If it is occasionally necessary to use cleaning products, we recommend limiting yourself to neutral liquid soaps for domestic use, diluted with water and removed with plenty of rinsing.
- Aggressive chemical cleaning products, bleaches, caustic soda, and the use of pressure washers are strongly discouraged.
- We also advise against cleaning during the hottest hours of the day and the use of cleaning machines, particularly those with abrasive discs, or hard rubber brushes.
- We recommend sanding the deck annually.
- Failure to comply with these instructions may cause premature deterioration of the joints, compromising the surface layer.

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
1020003	White	290 ml cartridge	24
1020071	White	600 ml sausage	12
1020002	Grey	290 ml cartridge	24
1020005	Grey	600 ml sausage	12
1020001	Black	290 ml cartridge	24
1020004	Black	600 ml sausage	12

Other formats available on request.

For further information see www.poly-mar.com

SAFETY AND HEALTH

Refer to Safety Data Sheet.

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.

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