



# POLYMAR MS 945

Revision: 24/06/2025

## TECHNICAL DATA

<b>Polymers and the curing system:</b>	<b>MS Polymer, alcoxy</b>
<b>Consistency:</b>	Paste
<b>Application temperature:</b>	+5°C to +35°C
<b>Specific weight:</b>	1,55 kg/dm <sup>3</sup>
<b>Shore A hardness:</b>	45 Shore A (DIN 53505)
<b>Modulus 100% (DIN 53504):</b>	1,3 - 1,6 Mpa (DIN 53504)
<b>Tensile Strength (DIN 53504):</b>	2,6 Mpa (DIN 53504)
<b>Elongation at break:</b>	500%
<b>Tear strength (ASTM D 624-73):</b>	20 N/mm
<b>Skin formation time (20°C / 50% RH):</b>	approx. 18 min.
<b>Curing speed (20°C / 50% RH):</b>	2 - 3 mm after 24 hrs.

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

## PRODUCT DESCRIPTION

A neutral, MS Polymer-based, one-component sealant with rapid ambient humidity curing. After cure the product reveals high elastic properties and excellent UV rays and humidity resistance.

## PRODUCT CHARACTERISTICS AND USES

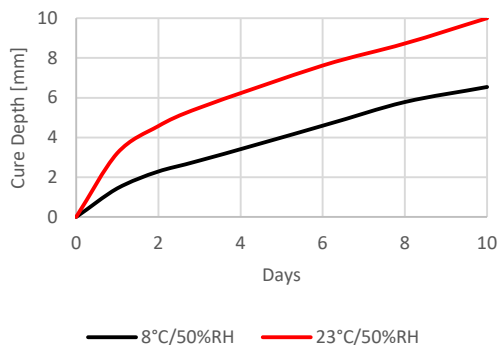
- Solventless and isocyanates free.
- Virtually no shrinkage and no bubble formation.
- Flexible at low (-40°C) and high (+100°C) temperatures.
- Neutral, odourless, safe in use.
- Compatible with most paints systems.
- It can be sanded and cutted soon after application.
- Good adhesion to wood, metals, fiberglass, previously treated.
- Good resistance to UV rays and to salt water

## PROFESSIONAL USES

- Expansion joint for teak decks.

## 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.
- For any application not listed in this document please contact our Technical Service.



## APPROVALS

**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 USE IN THE CONSTRUCTION OF "A", "B" & "C" CLASS DIVISIONS. MED/3.18 (c) - MED/3.18 (e).** Certificate 0987/MED-8/1007.

MS 945 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.

## Fratelli Zucchini S.p.A.

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COMPANY WITH  
ENVIRONMENTAL SYSTEM  
CERTIFIED BY DNV  
= ISO 14001 =

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001 =





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## 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/m<sup>2</sup> when required. The compliance is valid for:

1. All the colours.
2. The weight of 320 g/m<sup>2</sup> (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.

Wood has to be treated with **Primer LM/BV** in uniform thickness.

In joints designed to accommodate movement, after the application of **Primer LM/BV**, it is useful to insert a compressible backing material, to get maximum elasticity of the product.

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

Then compress by spatula the extra product to ensure the complete filling.

Best results are achieved by operating at a temperature not lower than +5°C allowing the **Primer LM/BV** completely dry. 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 has to be done lengthwise the joints using belt or orbital sanders, abrasive paper grit 80 at start, 120 to finish.

Overpainting only after a few weeks from sealing, always recommended a prior compatibility testing.

**Chemical resistance:** **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 a good deck maintenance.

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

With 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:** please note that overpainting can modify the elastic properties of the sealant surface and so its ability to accommodate the movements of the joint.

The compatibility of the sealant with the paint has to be previously verified by test.

It is recommended to apply the paint when the sealant is completely cured. It assures the best results, also esthetically.

**Solvent wiping:** dirty tools of **MS 945** can be solvent wiped with **ST/512**.

After curing **MS 945** can be removed only mechanically.

## 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 on 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.

## 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.

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.**

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