

MS CRISTALLINO

PRODUCT DESCRIPTION

A one part, moisture curing sealant based on **MS Polymer**.

PRODUCT CHARACTERISTICS

High elasticity and cohesion, good adhesion to a wide range of surfaces.

MS Cristallino produces high resistance elastic seals.

It can be used as an adhesive with structural characteristics, owing to its high modulus, hardness and tensile strength.

- Solventless and isocyanate free.
- Virtually no shrinkage detectable.
- Neutral, odourless reaction.
- Rapid curing.
- Excellent adhesion to a vast variety of substrates.
- Flexible at low (-40°C) and high (+ 100°C) temperatures.
- Paintable.

USES (professional)

- For interior application of joints between metal to metal, painted metals, glass, glazing surfaces, plastics (apart PE, PP, PTFE).
- For elastic sealing of glass, plastic (apart PE, PP, PTFE), ceramic, porcelain, metals, painted metals, wood in furnishing, gifts and fancy goods, building, marine, means of transport.
- For sealing door and window frames.+
- For outdoor sealing of showers.

LIMITATIONS

- Not indicated for outdoor application without protection from UV rays.
- Direct exposure to UV rays could cause possible yellowing.
- 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 plasticisers.
- Furthermore, it must not be applied in completely enclosed spaces, with no exposure to atmospheric humidity.
- Non specific for sealing on to marble and natural stone, previous compatibility tests are always recommended.
- 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.
- For any application not listed in this document please contact our Technical Service.

TECHNICAL DATA

Polymers and the curing system:	MS Polymer, alcoxy
Consistency:	Pasty
Application temperature:	+5°C / +35°C
Specific weight:	1,07 kg/dm ³
Shore A hardness:	35
Modulus 100% (DIN 53504):	0,8 MPa
Breaking load (DIN 53504):	2,5 MPa
Elongation at break:	250%
Tear strength (ASTM D 624-73):	7 N/mm
Skin formation time (20°C @ 50% RH):	12 min. approx.
Curing speed (20°C @ 50% RH):	3 mm. after 24 h.

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



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APPROVALS

MS CRISTALLINO has been tested and certified by **EUROFINS** according to:

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation	A +	Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM Edilizia	Pass	Decree 11 October 2017 (GU n.259 del 6-11-2017)
ABG	Pass	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes (ABG), Entwurf 31.08.2017/August 2018 (AgBB)
Belgian Regulation	Pass	Royal decree of May 2014 (C-2014/24239)
EMICODE *	EC 1 PLUS	apr-19
Indoor Air Comfort®	Pass	Indoor Air Comfort 6.0 of February 2017
Indoor Air Comfort GOLD®	Pass	Indoor Air Comfort GOLD 6.0 of February 2017
Blue Angel (DE-UZ 123)	Pass	DE-UZ 123 for "Low-Emission Sealants for Interior Use", (January 2019)
BREEAM International	Exemplary Level	BREEAM International New Construction v2.0 (2016)
BREEAM® NOR	Pass	BREEAM-NOR New Construction v1.2 (2019)
LEED	Pass	v 4.1 July 2019

* This test report does not alone entitle to use the protected trademark label EMICODE.

METHOD OF USE

Adhesion and surface preparation: **MS CRISTALLINO** has excellent adhesion without the use of primers on grease and dust free surfaces of steel, stainless steel, zinc coated steel, chromate, brass, aluminium, anodised aluminium, wood, glass and vetrified surfaces, ceramic, polyester, uPVC, ABS, polystyrene.

Great variety in nature and characteristics of paints and finishing products, suggest to verify the need of primer with previous testing .

For more detailed information on the use of primers and on the preparation of surfaces, please refer to the specific technical specifications and data sheet "**Primer for MS sealants**".

Application: apply sealant with hand or air operated gun extruding it in a continuous bead and forcing it in contact with joint sides. Tooling must be achieved within 5 minutes from application.

If **MS CRISTALLINO** is used as adhesive, it is recommended to apply the suitable quantity of product on only one part and join immediately by adequate pressure.

Too thin layers reduce both performance and delay curing time of the product.

If necessary keep joined the parts until complete cure.

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 can be solvent wiped with **Solvente ST/512**.

After curing **MS CRISTALLINO** can be removed only 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	pcs./box
1004967	transparent	290 ml. cartridge	24

Other sizes available on request.



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