MATT CHEM® MARINE

A REVOLUTION!

M.S. POLYMER® SEALANTS AND ADHESIVES

THE CHARACTERISTICS OF A SILICONE AND POLYURETHANE IN ONE, WITHOUT THE DISADVANTAGES OF EITHER.

MATT CHEM M.S. Polymer® sealants do not contain nor solvent, neither isocyanates, nor silicone. They are ready to use and do not require the application of a primary for their application. They keep their flexibility even after drying and hardening what limits the risks of crack. They are rich in additives of adhesiveness what enables them to even adhere on wet surfaces and thus to polymerize under the effect of the moisture of the air.

M.S. POLYMER® SEALANTS CAN BE APPLIED TO ANY KIND OF SUPPORTS SUCH AS LIGHT ALLOYS, ALUMINUM, STAINLESS,GLASS, GELCOAT, PVC, LAMINATE, WOOD AND DERIVED...

ADVANTAGES

	ACRYLIC SEALANT	SILICONE SEALANT	POLYURETHANE SEALANT	MATT CHEM M.S. POLYMER® SEALANT
Primary	No	No	Yes	No
Mechanical performance	Low	Low	Good	Excellent
Adhesiveness	Average	Good	Good	Excellent
U.V. resistance	Average	Good	Low	Excellent

TECHNICAL DATA

Density	approx. 1,42 g/ml
Shore A hardness	approx. 50 (ISO 868)
Resistance to vertical flow	< 3 mm (ISO 7390)
Shrinkage	< 10 % (ISO 10563)
Shore-A hardness	approx. 60°(ISO 868)
E-modulus at 100 %	approx. 1,20 MPa (ISO 37)
Elongation at break	> 250 % (ISO 37)
Shearing strength	approx. 1,20 MPa (ISO 4587)
Skin forming time	approx. 15 min. (23°C & 50 % R.H.)
Curing speed	approx. 2,5 mm /day (23°C & 50 % R.H.)
Capacity of joint movement	approx. 12,5 %
Temperature resistance	from -30°C to +70°C
Application temperature range	From +5C° / +40°C

Properties :
- Free from isocyanates and silicones
- Permanent elasticity.
- Highly resistance to ageing and weathering : good resistance to U.V, water, seawater, diluted acids and caustic solutions.
- Excellent adhesion to most substrates such as wood, MDF, brick, gypsum, concrete, natural stones, tiles, ceramic, steel, aluminium, zinc, cooper, brass, stainless and chrome steel, glass, mirrors, plastics, ABS, roofing and isolating material.

Usage :
Surface preparation :
Dimensions of the joint must be in conformity with the professional rules into force.
Joint walls must be sound, clean, dry and free from oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker to prevent bond at base of joint. Most substrates only require priming if testing indicates a need. Consult our technical service for additional information.
Application :
Apply with hand or pneumatic guns (maximum required pressure : 3,5 kg).
When applying avoid air entrapment. Smooth with joint nail or putty knife.
Tooling and finishing must be carried out within the skin formation time of the sealant.
Apply as an adhesive in a 'ventilating' way in vertical stripes with 30cm distance in between. The use of two sided adhesive tape, 3mm thick is recommended to support the adhesion during the first 24 hours and to make sure that the thickness of the adhesive is right.
Cleaning :
Material : immediatly with white spirit. Hardened sealant can only be removed mechanically.
Hands : soap and water.
Paintability :
Can be covered by means of water based paints.
It must be understood that sealants are elastomeric in nature, enabling them to extend and compress within a construction joint. Most paints are designed to be applied to hard, non-moving surfaces and do not match the elastomeric properties of sealants. Because sealants are soft and will extend and compress, if the paint film does not move in an identical manner to the sealant, the paint may crack and peel. It is always recommended to make test of compatibility with the paint before application

Limitations :
· Avoid exposure to high levels of chlorine.
· Avoid contact with alcohol, curing silicone sealants and solvent cleaners during cure.
· Not suitable for dilatation joints, and can't be used as a glazing sealant and in applications where continuous water immersion is possible. Among others not recommended for glazing and not for aquaria, PE, PP, Teflon and bituminous surfaces.

Available in Cartridge of 400 grs
Ref. 174M = Black sealant (MATT FLEX)
Ref. 173M = White sealent (M.P.A. «B»)
Ref. 241M = Colorless sealent (M.P.A. «I»)
Ref. 259M = Grey sealent (M.P.A. «B»)
Shelf Life : 18 months

EUH208: Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, Sébaçate de bis(1,2,2,6,6-pentaméthyl-4-pipéridyle). May produce an allergic reaction. P101 – If medical advice is needed, have product container or label at hand. P102 – Keep out of reach of children. P103 – Read label before use. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection. Do not apply to an ice-cold surface, by cold weather or temperature < in 10°C.tore the cartridge in a fresh area to facilitate its conservation. Keep out of the reach of children. Reclose the packaging after each use.
Exposure to sun and extreme temperatures should be avoided. Keep out of direct sunlight.
Always carry out a test prior to use on the surface to be treated to determine suitability and the appropriate contact time. Before use, read the label safety section for Health and Safety Information or request the safety data sheet to servicetechnique@mattchem.fr.

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