

SIMP FIX cristallino

Hybrid adhesive and sealant for severe applications.



DESCRIPTION

Latest generation one-component adhesive / sealant with hybrid base. It cross-links under the influence of atmospheric moisture to form a high-performance compound with permanent elasticity and high resistance to aging and atmospheric agents. Free of solvents, phthalates, halogen derivatives and isocyanates.

Certified according to:

EN 15651 – 1: Type F - INT
ISEGA EC Regulation 1935/2004 for food contact
EMICODE EC 1PLUS protocol
EUROFINS IAC GOLD protocol
VOC Emission class label A+

Tested according to:

EMICODE EC1^{PLUS}

AREAS OF APPLICATION

Product of innovative formulation that allows high performance applications on a wide range of surfaces such as: plastics (PC, PMMA, GRP), a lot of metals, galvanized and / or painted sheet, glass, ceramic, marble. For applications where gluing or sealing with a "crystalline" appearance is required. Suitable for transparent parapets of bridges and balconies, waterproofing of joints in transparent roof coverings and between door and window frames, mirror and glass assembly. Ideal for DIY and bricolage retail in fully transparent packaging.

FEATURES

- Crystalline
- Excellent resistance to aging, to atmospheric agents; stable colour, with no tendency to yellowing and chalking
- No bubble formation - Odorless
- Permanently elastic
- Exceptional thixotropy, without sagging, with clean detachment, ideal consistency for smoothing.
- No volumetric shrinkage

- Good adhesion without primer on more diffused construction and industrial materials.
- Does not stain concrete and porous materials

TECHNICAL DATA

Appearance	Pasta tissotropica
Chemical nature	SiMP – Silyl Modified Polymer
Curing Mechanism	Moisture-curing
Density [g/cm³]	ca. 1.06
Hardness Shore A [°]	ca. 40
Skin time [min] (NPT Method 17) (23°C and 50% RH)	ca. 35
Curing through volume [mm/24h] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3.0
Elastic modulus at 100% [N/mm²] (ISO 37 DIN 53504)	ca. 1.2
Elongation at break [%] (ISO 37 DIN 53504)	ca. 250
Tensile strength [N/mm²] (DIN 53504)	ca. 2.6
Application temperature [°C]	5 ÷ 40
Temperature Resistance [°C]	-40 ÷ 100
For short term a [°C]	120

APPLICATION

The surfaces to be treated should be perfectly clean, dry and free from dust and grease. It is necessary to treat the bonding surface according to NPT application guidelines, eventually using a specific CLEANER or ACTIVATOR from NPT range. It is advisable to carry out preliminary adhesion tests on the support. Extrude the adhesive / sealant carefully preventing air entrapment.

Once opened, packs should be used up within a relatively short time. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C.

Tooling and finishing must be carried out within the tack-free time of the sealant. SiMP FIX Cristallino can be over-painted. The paint must be tested for compatibility by carrying out preliminary trials. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant

and reduce the drying time of the paint itself. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Do not cure in the presence of curing silicone sealants. Avoid contact with solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

Clean used tools with alcohol. When the adhesive has not yet hardened, it can be removed using paper or a cloth. Once hardened, the product can only be removed mechanically. It is recommended to use latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove and wash with soap and water.

PACKAGING

Cartridge 290ml - 24 cartridges per box

Tube 100 ml - 16 pieces expo

STORAGE AND SHELF LIFE

SiMP FIX Cristallino can be stored for 12 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

GENERAL INFORMATION

The information contained in this technical data sheet is to the best of our knowledge correct, being based on our knowledge and experience to date and cannot be used as a guarantee, due to the various different materials present on the market and the fact that the application conditions are not under our direct control and supervision. NPT srl, however, guarantees constant product quality. NPT srl, has the right to modify or up-date this technical data sheet according to requirements. Customers are kindly requested to verify that they are in possession of the latest version.

ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USING THE PRODUCT