SiMP High TACK

High Tack, one part SiMP® elastic adhesive
High thixotropy and Green strength
Free of solvent and isocyanates

Description

SiMP High TACK is a one-part high viscosity Silyl-Terminated Polymer adhesive. Once extruded it cures by reaction with atmospheric moisture to form a high initial tack assembly adhesive with powerful green strenght to instantly grab even heavy objects with no need of any support.

Areas of Application

SiMP High TACK is a powerful universal adhesive for all bonding jobs where a maximum instantly grab is required with no need of any support even for heavy objects bonding. SiMP High TACK is effective on building and industrial materials such as: stone, concrete, mirrors, glass, plasterboard, wood, rigid plastics, insulation panels, copper, zinc, aluminium, metals, stainless steel.

Advantages

- Outstanding High Tack effect: maximum instant grab and load bearing capacity
- Non-sag consistency, high viscosity and thixotropy
- High mechanical and dynamic stress resistance
- Shock and impact resistant
- Primer-less adhesion on many substrates
- Neutral behaviour, does not attack support surfaces
- No change in volume – No shrinkage
- Environmental friendly – Free of isocyanates and solvents
- No Hazard symbol required
- Odourless
- Permanently flexible in temperatures ranging from -40°C to 100°C
- Short time resistance up to 120°C
- Resistant to water, diluite alkalis, cleasing agents, lime water and mould

NPT S.r.l.
NEW POLYURETHANE TECHNOLOGIES
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Registro imprese di Bologna e C.F. 03467421206
P. IVA IT-03467421206 - R.E.A. BO-521497

Technical data

Appearance	Thixotropic paste
Colour	White
Chemical nature	SiMP - Silyl Terminated Polymer
Curing Mechanism	Moisture-curing
Curing through volume [mm] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3,0
Shore A hardness [N/mm^2] (DIN 53505)	ca. 60
Density [g/cc] (NPT method 06) (23°C and 50% RH)	ca. 1,49
Tack-free time [min] (NPT Method 17) (23°C and 50% RH)	ca. 20
Elastic modulus at 100% [N/mm^2] (ISO 37 DIN 53504)	ca. 2,2
Tensile strength [N/mm^2] (ISO 37 DIN 53504)	Ca. 3,2
Elongation [%] (ISO 37 DIN 53504)	Ca. 280
Tear strenght [N/mm] (ISO 34-1 method B with nick)	ca. 10
Application temperature [°C]	from +5 to +40
Temperature resistance [°C]	-40/+100, with brief points at +120

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Application

Surface preparation

Pre-test substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion. As a rule, the substrates must be prepared in accordance with the NPT instructions; technical guidance regarding adhesion on specific surfaces may be obtained by submitting substrate samples for analysis to our laboratories. Surfaces must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper or hard brush. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent.
Screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the cartridge into a manual or pneumatic air operated gun provided with telescopic piston, because of the high viscosity of the material and 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.

For adhesive purposes

Bonding and fixing: apply adhesive sealant on one side in dots or lines (every 10-30 cm). Always apply adhesive sealant in corners and along edges. Join parts in the right position within 5 minutes and press firmly or tap lightly with a rubber mallet. If necessary, secure or support heavy materials for 24 hours.

Finishing indications and limitations

SiMP High TACK 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.
Since system is moisture-cured, permit sufficient exposure to air.

Cleaning of equipment

Clean tools with acetone or alcohol immediately after use. Cured material can only be removed mechanically.

Personal protective measures

Keep out of reach of children. If skin contact occurs, remove immediately and wash with soap and water

Packaging

PE-cartridge 290ml:	12 cartridges per box
Alu- bags 400 ml.	12 bags per box (on request)
Alu- bags 600 ml.	20 bags per box

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Storage

SiMP High TACK can be stored for 12 months in its original packing (unopened container) at 5°C-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.

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