



Technical Data Sheet SiMP Seal 630
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SiMP Seal 630

**One-component SiMP elastic adhesive and sealant
for naval deck and industrial applications. IMO FTPC Part 5 certified**



DESCRIPTION

SiMP Seal 630 is a one-component SiMP - Silyl Modified Polymer elastic adhesive and sealant for spatula, beading or spray applications in various industrial, elastic assembly or repairs jobs in the general industry, nautical or automotive sectors. Specifically designed for bonding teak, cork and synthetic teak slats to marine plywood, glass fibre reinforced plastic, wood, aluminium and steel. It cures under the influence of atmospheric moisture to form a high-performance and permanently flexible elastic adhesive or sealant. Free of solvents and isocyanates. In conditions of low humidity or for use on large surfaces, even non porous, it is possible to significantly speed up the crosslinking of SiMP Seal 630 by mixing it with a catalyst component from NPT Accelerator.

Certified according to:

IMO Resolution MSC.307(88)-Fire Testing Procedures Code (2010 FTP Code) – Annex 1 Part 5

AREAS OF APPLICATION

SiMP Seal 630 is a versatile adhesive and sealant specific for elastic assembly in general industry, nautical or automotive for the construction and repair of bodywork, trains, industrial vehicles and containers; as an adhesive for surface bonding, applied by spatula, roller or spray; for joints sealing and for the reproduction of original marks. Used in overlapping or welded joints in the automotive aftermarket; it also contributes to corrosion protection. Also excellent in the industrial and nautical sectors for gluing teak, cork and synthetic teak slats onto load-bearing structures and for the construction of sandwich panels, coverings, couplings in general made up of materials of different or equal nature, even on large surfaces. It has excellent primerless adhesion properties on painted surfaces, ferrous and non-ferrous metals, PVC, gelcoat, HPL, glass fiber reinforced plastics, ABS, polycarbonate and plastic materials in general.

FEATURES

- SiMP Silyl-Modified Polymer
- Solvent-free and isocyanate-free, virtually odourless. No bubbles or bulging
- Easy to apply and spread, it also allows gap filling without dripping
- Rapid polymerization with the possibility of being combined with a booster

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UNI EN ISO 9001:2015

- Sprayable with a specific pneumatic gun; fine and/or heavy finish can be achieved by adjusting air pressure, joint distance and product dosage
- Does not unravel when removing masking tape
- Protects against corrosion, can be used for both interior and underbody applications
- Vibration and sound dampening properties
- Sealing of construction joints, electro-welded sheet metal and panelling
- Spot welding possible before curing
- Can be easily finished, brushed or sanded
- Remains permanently flexible over a wide temperature range
- No post-application blistering
- Can be overpainted with many water and solvent-based paints (preliminary tests recommended)
- No hazard symbols on label
- Easy to remove from hands and surfaces, including wood
- Long-term resistance to fresh water, sea water, diluted aqueous detergents

TECHNICAL DATA

Appearance	Non-sag thixotropic paste
Color	White, black, grey RAL 7040. Other on request
Chemical nature	SiMP Silyl-Modified Polymer
Curing Mechanism	Moisture-curing
Curing through volume [mm] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 2.5
Hardness Shore A (DIN 53505)	ca. 45
Density [g/cm ³] (NPT method 06) (23°C and 50% RH)	ca. 1.60
Skin time [min] (NPT Method 17) (23°C and 50% RH)	ca. 30
Elastic modulus at 100% [N/mm ²] (ISO 37 DIN 53504)	ca. 1.1
Tensile strength [N/mm ²] (ISO 37 DIN 53504)	ca. 1.5
Elongation at break [%] (ISO 37 DIN 53504)	ca. 340
Application temperature [°C]	From +5 to +40
Temperature Resistance [°C]	From -40 to +100



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, ACTIVATOR or PRIMER from NPT range. It is advisable to carry out preliminary adhesion tests on the support.

For spray application, use with a dedicated air-pressure gun equipped with a spray regulating nozzle. A smooth spray (orange peel effect) or a more marked effect can be obtained by regulating the nozzle and the air pressure. To better control the spray air flow and therefore the finishing, start from zero pressure and augment to the desired flow. Spray at a distance from 5 to 40 cm from the object. For spatula, roller or spray application as an elastic adhesive for floors and panels, spread the material even in a thin layer. For applications as an elastic adhesive for boat decks, please refer to specific guidelines. To speed up curing transforming the mechanism from curing-through-volume to full-volume curing, mix with Accelerator added by 5% to 10% in weight. Read Accelerator TDS for instructions. SiMP Seal 630 is a low viscosity thixotropic paste, viscosity value may slightly differ from each batch and according to the residual shelf life. Spraying and finishing tests should be performed beforehand to obtain the desired effect.

SiMP Seal 630 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. 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 the tools used with acetone or solvent. 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. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

PACKAGING

Foilpack 600ml – 20 pieces per box
Hobcock 32kg

STORAGE AND SHELF LIFE

SiMP Seal 630 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