

Torggler

Hybrid Sealants and Adhesives

SITOL[®] DECK BONDING

Hybrid polymer-based adhesive-sealant with extended open time for natural and synthetic teak.



- Excellent workability
- Adhesion without primer on all types of substrate
- Excellent UV, weather, chemical and saltwater resistance
- Solvents and isocyanates free: DOES NOT require training according to Annex XVII of Regulation (EC) 1907/2006

APPLICATION AREAS

Typical bonding and sealing on yachts and boats on deck/hull and below deck on wall, floor and ceiling.

- bonding of natural teak deck on deck
- bonding of synthetic teak and cork deck on deck
- bonding and sealing of marine plywood panels on metal, polyester and wood
- sealing of deck-hull connections

FEATURES

Sitol[®] Deck Bonding is a high-quality, professional adhesive-sealant based on hybrid polymers that hardens by reaction with moisture to form a permanently elastic mass. Hardening is characterised by prolonged open time. With constant elasticity from -30 °C to +100 °C, it absorbs vibrations and acoustically insulates bonded elements. It has excellent resistance to UV radiation, ageing in general, chemicals, salt water and mould formation. It does not shrink, it does not crumble. It is free of solvents and isocyanates. It adheres without primer to typical materials of the marine industry, natural and synthetic, smooth and porous, even wet, provided they are clean, degreased and compact. (In the case of stressed substrates it is recommended to treat the surfaces with Sitol[®] Primer Deck Caulking).

INSTRUCTIONS FOR USE

The application temperature of both environment and materials can vary between +5 and +30 °C. Substrates must be solid, clean and free of oil or dust.

1. Insert the cartridge/bag into the cartridge gun, open it, screw on the nozzle and cut it according to the quantity to be extruded.
2. Spread the adhesive with a suitable toothed trowel in sufficient quantity to cover the bonding area. To ensure adequate elasticity of the adhesive layer, apply a thickness of 2 mm.
3. Bring the materials into position and bond them together before the surface film forming.
4. In any case, carry out preliminary adhesion tests and/or prime the surfaces using Sitol® Primer Deck Caulking, in the case of particularly mechanically, thermally and environmentally stressed substrates.

In the case of application as a sealant, avoid air entrapment by smoothing with Smooth before the surface layer forms.

Cleaning

In the plastic status of the sealant, using acetone or other solvent; after hardening, only mechanically.

TECHNICAL SPECIFICATIONS


PARAMETER AND METHOD	VALUE
Density (ISO 1183-1)	1.428 g/ml
Application temperature	+5 °C to +30°C
Surface cross-linking time (MIT 33*)	20 min
Hardening speed from outside to inside at 23 °C (MIT 32*)	2-3 mm in 24 hrs
Operating temperature	-30 °C to +80 °C
Surface hardness (ISO 868)	Shore A 47
Volume change (EN ISO 10563)	3 %
Flow resistance (EN ISO 7390)	2 %
Elongation at break (DIN 53504 – Die S3A) Die S3A)	390 %
Tensile strength at break (DIN 53504 – Die S3A)	1.5 MPa
Modulus of elasticity at 100 % (DIN 53504 – Die S3A)	0.8 MPa
Elongation at break (EN ISO 8339/A – Al _{up})	150 %
Tensile strength at break (EN ISO 8339/A – Al Al _{up})	0.9 MPa
Modulus of elasticity at 100 % (EN ISO 8339/A – Al Al _{up})	0.8 MPa
Maximum working elongation (ISO 11600)	±20%
Odour after cross-linking	None

* Torggler Internal Methods are available on request.

Color	Black 9005, White 9016
Packaging	cartridge, foil bag
Packaging size	12x290 mL, 20x600 mL
Pallet	116 cardboards, 36 cardboards

STORAGE

Sitol® Deck Bonding must be stored in a dry and cool environment. Under these conditions, storage stability is at least 12 months. Avoid humid environments, heat sources and direct exposure to sunlight. Cartridges/bags that are not completely consumed can be stored for about 3 months if tightly closed.



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