

Technical Documentation

SEAL-IT® 353 SUPER-STRONG

Product

SEAL-IT® 353 SUPER-STRONG is a high-quality, extremely powerful, stain-free, universal adhesive sealant based on MS-Polymer®. Specifically for seals and bondings with high strengths, in industrial sectors.

Applications

- Specifically for the high-strength sealing and bonding of almost all materials.
- Elastic bonding and sealing in car, bus, caravan, truck and train constructions.
- Universal joint sealing and material bonding in industry, marine and automotive.
- Stain-free sealing and bonding of porous materials and sensitive substrates.
- Bonding and sealing of corner profiles, roof and floor systems in the transport industry.
- Multifunctional assembly and construction adhesive, suitable for almost all construction materials.
- Bonding of polyester construction parts to metal and aluminum frames.
- Structural bonding in vibrating structures of buildings, vehicles and devices.
- Sealing and bonding in bodywork, trailer, ship, container and air duct construction.
- Repair adhesive sealant for damaged MS-Polymer® joints and adhesive joints.

Properties

- Low odor, blister and shrink-free curing.
- Durable permanently elastic.
- Adheres excellently without primer to almost all, even damp surfaces.
- Extremely high tensile strength, mechanical resistance, final strength and rapid force build-up.
- Does not stain or bleed in combination with porous materials, does not cause edge zone pollution.
- User-friendly and versatile.
- Suitable for gluing or sealing almost everything indoors and outdoors.
- Can be painted over with dispersion-based paint and varnish systems.
- Plasticizer, phthalate, isocyanate, solvent and silicone free.
- Perfectly sandable and grindable after complete curing.
- Compatible with food, PVB films laminated glass and silver coating mirrors.
- Excellent absorption of acoustic and mechanical vibrations and vibrations.
- Durable UV, weather, water, moisture, aging resistant.

Standard range

Color	12 x 290ml cartridge	12 x 600ml foil
Grey	SI-353-7100-290	SI-353-7100-600
Black		SI-353-9200-600

Other colors and/or packaging available on request.



Connect Products B.V.

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Technical product data

PROPERTY	STANDARD	SPECIFICATION
Basis		MS-POLYMER® 1-COMPONENT
Standing capacity	ISO 7390	<2 mm
Density	ISO 1183	1,46 g/ml
Skin formation time	+23°C/50% RV	10 minutes
Elastic skin formation time	+23°C/50% RV	approx. 15 minutes
Curing after 24 hours	+23°C/50% RV	3 mm
Permissible deformation		25 %
Mechanical values		2 mm film
Shore A hardness	DIN 53505	approx. 60
E-Modulus 10%	DIN 53504 / ISO37	approx. 3.8 MPa
Modulus 100%	DIN 53504 / ISO37	2.72 MPa
Tensile strength	DIN 53504 / ISO37	4.33 MPa
Elongation at break	DIN 53504 / ISO37	280%
Shear break *	DIN 53283	approx. 2.5 MPa
Tear strength	DIN 53515	approx. 22 N/mm
Glass transition (Tg)		-50°C
Temperature resistance after Full curing		-40/+110°C**
Shrinkage		None

* = alu on aluminium, thickness 2mm, speed 50mm/min.

** = For prolonged exposure to high temperatures, please consult Connect Products in advance.



Shelf life

In unopened original packaging, store in a cool and dry place, between +5°C and +25°C.

Shelf life of up to 15 months, after production date.

Application conditions

- Processing temperature (environment and substrate) between min. +5°C and max. +35°C.
- On load-bearing, compatible, clean, grease- and dust-free surfaces.
- Completely remove loose components from substrates using a suitable brush.
- Completely degrease greasy surfaces using SEAL-IT® 510 CLEANER.
- Apply in the correct joint dimensions, to be able to absorb movements well.
- SEAL-IT® 353 SUPER-STRONG has a broad adhesion spectrum, but highly porous substrates are pre-treated with SEAL-IT® 520 PRIMER. Pre-treat non-porous surfaces with minimal adhesion using SEAL-IT® 525 CLEAN & BOND.
- Apply primer easily, quickly, cleanly, evenly and not excessively using SEAL-IT® 590 PRIMER BOTTLE + KWAIST, under the correct temperature and substrate conditions (see TDS).
- As soon as the primer is dry, apply SEAL-IT® 353 SUPER-STRONG a.s.a.p.
- Wet finish for skin formation using SEAL-IT® 550 FINISH and smooth immediately afterwards using SEAL-IT® 590 FINISHING SPATULA, FINISHING JOINT QUARTET or FINISHING STICKS.

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Paintability

SEAL-IT® 353 SUPER-STRONG can be painted over with emulsion paint systems after sufficient skin formation. However, synthetic paint systems can slow down in drying. If SEAL-IT® 353 SUPER-STRONG is to be painted over, first lightly sand the adhesive sealant and adjacent parts using Scotch-Brite®, for optimal results. After this, degrease everything completely using SEAL-IT® 510 CLEANER and immediately afterwards repaint. From a technical point of view, it is better not to paint over elastic deformable adhesive sealants, and SEAL-IT® 353 SUPER-STRONG is also permanently ageing, UV and weather resistant. However, if you do paint over the adhesive sealant for aesthetic reasons, always do this professionally in combination with a durable high-quality paint system, which can sufficiently absorb movements from the elastic sealant substrate to reduce cracking in the applied paint layer. When wet finishing SEAL-IT® 353 SUPER-STRONG, always apply the SEAL-IT® 550 FINISH in the right amount and mix. Excessive use and an incorrect mixing ratio will cause soap marks on the sealant surface and adjacent parts. This creates an increase in surface tension, as a result of which the paint/varnish applied to it will not flow and adhere properly. Always dry the sealant surface completely with a clean, grease-free, dry, lint-free and absorbent cloth. SEAL-IT® 353 SUPER-STRONG is best repainted within a few days of application, under the correct ambient and substrate temperatures (see TDS paint manufacturer). Always carry out a paint compatibility test beforehand.



Limitations and recommendations

SEAL-IT® 353 SUPER-STRONG is unsuitable for constant water loading, aquarium construction, sanitary and expansion joints. Not applicable in combination with PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates. Can possibly. Discolouration in combination with chemicals, due to migration of substances and when used in dark rooms. Always ensure sufficient humidity from the immediate environment/subsoil during curing. Do not mechanically, thermally and chemically load, for complete curing. Repair with the same material. Adhesive and joint sealants function more sustainably if structural maintenance and timely repairs are carried out. Always test adhesion and material compatibility beforehand.

Cleaning

Remove fresh, uncured and/or excess material from substrates and tools using SEAL-IT® 510 CLEANER. Clean hands/skin using SEAL-IT® 515 ULTRA WIPES. Cured material can only be removed mechanically, using the right tools.

Health and safety

Avoid prolonged skin contact. In case of contact with uncured material in the eyes, rinse immediately with water and consult a doctor. Product safety data sheet is available upon request.

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Warranty and liability

Connect Products B.V. guarantees that its product, within the shelf life, is in accordance with the specifications. The liability will never exceed what is stipulated in our general terms and conditions of sale and delivery. Under no circumstances is the seller liable for any consequential damage. The information provided is the result of our testing and experience and is of a general nature. However, it does not imply any liability. It is the responsibility of the user to determine whether the product is suitable for the application through their own tests.

Certification

EN 15651-1: F-INT.

EUROFINS LEED.®

BREEAM

VOC emission class A+.



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