

Grip All Hybrid Polymer Clear

Revision: 06/03/2020

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Technical data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 10 min
Curing speed * (23°C/50% R.H.)	2 mm/24h → 3 mm/24h
Hardness**	Ca. 45 ± 5 Shore A
Density	Ca. 1.07 g/ml
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	> 1.00 N/mm ²
Elasticity modulus 100% (ISO 37)**	> 0.60 N/mm ²
Elongation at break (ISO 37)**	> 250 %
Temperature resistance**	-40 °C → 90 °C
Application temperature	5 °C → 35 °C

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Grip All Hybrid Polymer Clear is a high quality, crystal clear, neutral, elastic, 1-component adhesive based on SMX-Polymer.

Properties

- crystal clear formulation
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Very good mechanical characteristics.
- Good extrudability even at low temperatures
- Can be painted with all water based paints and many other systems (to be tested)
- Permanently elastic after curing
- Not suitable for natural stone

Applications

- Transparent and elastic bonding in construction and building applications.
- Sealing and bonding in the building and construction industry.
- Invisible bonding of glass and other transparent materials in indoor applications.

Packaging

Colour: transparent

Packaging: 290 ml cartridge

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Chemical resistance

Good resistance to (salt)water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates, glass, treated wood, PVC, plastics, metals, stone, concrete, ...

Nature: rigid, clean, free of dust and grease.

Surface preparation: Grip All Hybrid Polymer Clear has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. Porous surfaces should be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet).

Grip All Hybrid Polymer Clear has excellent

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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adhesion on most substrates. NOTICE: bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Grip All Hybrid Polymer Clear is not recommended in these applications. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Joint dimensions

Min. width for bonding: 1 mm

Min. width for joints: 5 mm

Max. width for bonding: 3 mm

Max. width for joints: 10 mm

Min. depth for joints: 5 mm

Application method

Application method: With a manual, pneumatic or accu caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use Cured Grip All Hybrid Polymer Clear can only be removed mechanically.

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- Grip All Hybrid Polymer Clear is paintable with waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- Grip All Hybrid Polymer Clear is not suitable for expansion joints.
- Do not use in applications where continuous water immersion is possible.

- Not suitable for bonding aquariums.
- Not suitable for sanitary applications.
- Grip All Hybrid Polymer Clear has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Grip All Hybrid Polymer Clear can not be used as a glazing sealant.
- Grip All Hybrid Polymer Clear cannot be used on natural stone.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- A total absence of UV can cause a color change of the sealant.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.

Environmental clauses

Leed regulation:

Grip All Hybrid Polymer Clear conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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