

T-Rex Power

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Technical data

Base	Silyl-terminated polymer	
Sag	No sag in vertical displ. @120°F	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	5 minutes	@ 23°C (75°F) & 50% relative humidity
Tack-free time (*)	20 minutes	ASTM C 679
Curing time (*)	24-48 hrs, 6 mm (1/4") diameter bead	@ 23°C (75°F) & 50% relative humidity
Hardness – Shore A	55 +/- 5	ASTM C 661
Tensile Yield	2.75 N/mm ²	ASTM D 412
Elongation	300%	ASTM D 412
Movement capability	+/- 25%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No Cracking	ASTM C 793
Service temperature range	-40°C to 93°C (-40°F to +200°F)	
Application temperature range	-37°C to +60°C (-35°F to +140°F)	
Shelf life	12 months	Stored between +5°C & +25°C (41°F & 77°F)
VOC	< 2 % - 20 g/L	EPA method 24

* 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

T-Rex Power is a high quality, neutral, elastic, 1-component adhesive sealant based on MS-Polymer with a very high initial tack.

Properties

- High initial tack reducing the need for initial support.
- Fast curing
- Good extrudability
- high shear strength after full cure (no primer)
- Stays elastic after curing and very durable
- No odour.
- Can be painted with water based systems
- Good weather and UV resistance
- Does not contain isocyanates and no silicones
- Good adhesion on slightly moist substrates

Applications

- Sealing and bonding in the building and construction industry.
- Elastic bonding of panels, profiles and other pieces on the most common substrates (wood, MDF, chipboard, etc).
- Elastic structural bonding in car and container industry.

Packaging

Colour: white, other colors on request
Packaging: 290 ml cartridge, other packaging on request

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C & +25°C (41°F & 77°F)

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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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, treated wood, PVC, plastics, ...

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

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet).

T-Rex Power is has been tested on following metal surfaces: AlCuMg1, AlMg3, AlMgSi1, stainless steel, electro-galvanized steel, steel ST1403, hot dip galvanized steel. T-Rex Power also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, polyamide, fiberglass reinforced epoxy, polyester. While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding or sealing. For optimum adhesion the use of Surface Activator is recommended. **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 T-Rex Power 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

The optimal bond thickness for this product is at least 2 mm (1/12") for the elastic properties to come to full justice.

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

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

- T-Rex Power may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- T-Rex Power can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended.
- T-Rex Power can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- A total absence of UV can cause a color change of the sealant.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Do not use in applications where continuous water immersion is possible.

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- 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:

T-Rex Power 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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