

3 April 2024

## T-REX POWER FAST GRAB

### Technical Data

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Basis                                  | SMX® Hybrid Polymer              |
| Consistency                            | Stable paste                     |
| Curing system                          | Moisture curing                  |
| Skin formation* (23°C/50% R.H.)        | Ca. 5 min                        |
| Curing speed* (23°C/50% R.H.)          | Ca. 3 mm/24h                     |
| Hardness**                             | Ca. 65 ± 5 Shore A               |
| Density                                | Ca. 1.47 g/mL                    |
| Elastic recovery (ISO 7389)**          | > 80%                            |
| Maximum allowed distortion (ISO 11600) | ± 20%                            |
| Max. tension (ISO 37)**                | Ca. 3.20 N/mm <sup>2</sup> (MPa) |
| Elasticity modulus 100% (ISO 37)**     | Ca. 2.10 N/mm <sup>2</sup> (MPa) |
| Elongation at break (ISO 37)**         | 300 %                            |
| 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

T-Rex Power Fast Grab is the most versatile, high strength adhesive sealant with 1-second immediate grab. It has an incredible high-end strength of 320 tonnes per m<sup>2</sup> and even adheres to damp surfaces.

It is based on the unique SMX® Hybrid Polymer technology developed by Soudal.

### Properties

- High fast grab reducing the need for initial support.
- Fast curing
- Good extrudability
- High shear strength after full cure (no primer)
- Remains elastic after curing and very durable
- No odour
- Can be painted with water-based systems
- Good weather and UV resistance
- Doesn't contain isocyanates or silicones
- Good adhesion on slightly moist substrates

### Applications

- Sealing and bonding in the building and construction industry.
- Elastic structural bonding in car and container industry.

- Elastic bonding of panels, profiles and other pieces on the most common substrates (wood, MDF, chipboard, etc).
- Sealing of floor joints

### Packaging

*Colour:* bright white, jet black, steel grey, beach sand, quick silver

*Packaging:* 290 mL cartridge, 600 mL sausage

### Shelf life

15 months in original, unopened packaging in a cool and dry storage place with temperature 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, brick, concrete, metals, treated timber, PVC, plastics, ...  
*Nature:* rigid, clean, free of dust and grease, dry or slightly moist.

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3 April 2024

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**Surface preparation:** T-Rex Power Fast Grab 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 pretreatment procedure. Prepare non-porous surfaces with a Soudal **Surface Activator** or cleaner (see Technical Data Sheet). Porous surfaces should be primed with Soudal **Primer 150**.

T-Rex Power Fast Grab 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 Fast Grab 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. We recommend a preliminary adhesion test on every surface.

**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 Fast Grab 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

|                                                    | JOINT |       | BONDING |
|----------------------------------------------------|-------|-------|---------|
|                                                    | Width | Depth | Width   |
| Min                                                | 5 mm  | 5 mm  | 2 mm    |
| Max                                                | 30 mm | 15 mm | 10 mm   |
| <i>Recommendation for sealing: ½ width = depth</i> |       |       |         |

Ensure correct joint dimension and preparation, consult the technical bulletin “Joint Preparation & Joint Dimensions” on our website.

The optimal bond thickness for this product is at least 2 mm for the elastic properties to come to full justice.

### Application method

Refer to the current Technical Data Sheet on our website prior to use.

Apply the product with high thrust-ratio caulking gun. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

**Application method:** With manual- or pneumatic caulking gun.

**Cleaning:** Clean with Soudal Surface Cleaner or with Soudal **Swipex**, immediately after use.

Cured T-Rex Power Fast Grab 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. Use only in well-ventilated areas.

### Remarks

- T-Rex Power Fast Grab 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 Fast Grab 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.

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## T-REX POWER FAST GRAB

- T-Rex Power Fast Grab cannot be used as a glazing sealant.
- T-Rex Power Fast Grab can be used for bonding of natural stone, but it cannot be used as a joint sealant on this type of surface. T-Rex Power Fast Grab can therefore only be used on the bottom of natural stone tiles.
- When applying, make sure that the surface of the materials is not smudged with sealant.
- A total absence of UV can cause a colour change of the sealant.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in colour 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.

### Standards and certificates

- AU: WaterMark WMTS-014:2016 Licence: WM-023300

### Environmental clauses

#### *Lead regulation:*

T-Rex Power Fast Grab 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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