T-Rex Power X-Treme

Technical data

Basis	SMX® Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 4 min
Curing speed * (20°C / 65% R.H.)	2 mm/24h
Hardness	55 ± 5 Shore A
Density	1,46 g/ml
Maximum allowed distortion	± 20 %
Max. tension (DIN 53504)	2,10 N/mm²
Elasticity modulus 100% (DIN 53504)	1,80 N/mm²
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

Product description

T-Rex X-Treme is a high quality, neutral, elastic, adhesive sealant has been developed for extreme tack for immediate bonding of extremely heavy materials without additional support. It is based on the unique SMX Polymer technology developed by Soudal with an extremely high initial tack of 400 kg/m².

Properties

- Extreme high initial tack of min. 400 kg/m²
- Fast curing
- Good workability with included triangular shaped nozzle.
- High shear strength after full cure
- Stays elastic after curing and very sustainable
- No odour
- Free of isocyanates, solvents, halogens and acids
- Good colour stability, weather and UV resistance
- Excellent adhesion on nearly all surfaces, even if slightly moist.

Applications

- Bonding in building and metal industry.
- Elastic bonding of objects, panels, profiles and other pieces on the most common substrates.
- Elastic structural bonding in automotive applications: buses, trains, trucks, caravans, ship-building etc.

Packaging

Colour: white and black
Packaging: 290mL cartridge

Shelf life

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

Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: Timber, tiles, brick, concrete, most plastics including PVC, Perspex (acrylic), polycarbonate (not PE & PP), fibreglass, insulation materials, polystyrene, metal including steel, galvanised steel/iron, aluminium including composite panel, brass, copper, plasterboard, cement sheeting, stone, most rubber (pre-test), cork, glass and mirrors, most coatings (pre-test).
Test is best – substrates can vary from manufacturer, we recommend prior compatibility testing.

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Surface preparation: surfaces must be clean, dry, free of dust and grease. Porous surfaces in water loaded applications should be primed with Primer 150. All smooth surfaces can be treated with Soudal Surface Activator.

T-Rex X-Treme has excellent adhesion on most substrates. T-Rex X-Treme is has been tested on following metal surfaces: stainless steel, AlMgSi1, brass, electro-galvanized steel, AlCuMg1, hot dip galvanized steel, AlMg3, steel ST1403. T-Rex X-Treme also has a good adhesion on plastics: polystyrene, 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. 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 X-Treme is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®), silicones and bituminous substrates. We recommend a preliminary compatibility test.

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

Application method
- For more detailed info, refer to the current Technical Data Sheet on our website prior to use.
- Surfaces must be dry, clean, free from dust, grease / contaminants.
- Apply at temperatures between +5°C to +35°C.
- Ensure correct joint dimension and preparation, consult the technical bulletin "Joint Preparation & Joint Dimensions" on our website.
- **For Bonding:** Apply in beads onto one of the surfaces and press together firmly. Leave to cure, full end strength is reached within 24 hours. Support of the bonded materials may be required if heavy than 400kg/m^2. The bond can be fully loaded after 24-48 hours.
- Clean up: Uncured with Soudal Swipex, Cleaner & Degreaser, white spirits. When cured remove with Sealant Remover.
- Store in cool and dry place between +5°C and +25°C

Health- and Safety Recommendations Take the usual labour hygiene into account. Consult label for more information.

Remarks
- T-Rex X-Treme is paintable with most 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 X-Treme 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.
- T-Rex X-Treme can be used for bonding of natural stone, but it cannot be used as a joint sealant on this type of surface. T-Rex X-Treme can therefore only be used on the bottom of natural stone tiles.