

T-Rex Power Crystal

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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**	38 ± 5 Shore A
Density**	1,04 g/ml
Elastic recovery (ISO 7389)**	> 75 %
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	2,40 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,80 N/mm ²
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 Crystal is a high quality, crystal clear, neutral, elastic, 1-component adhesive based on SMX-Polymer.

- Invisible bonding of glass and other transparent materials in indoor applications.
- Joints in bathrooms and kitchens.

Properties

- crystal clear formulation
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Very good mechanical characteristics.
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- Suitable for sanitary applications.
- Good extrudability even at low temperatures
- Free of isocyanates, solvents, halogens and acids
- Can be painted with all water based paints and many other systems (to be tested)
- Permanently elastic after curing

Applications

- All common bonding and sealing applications, both in and outdoor.
- Transparent and elastic bonding in construction and building applications.

Packaging

Colour: transparent

Packaging: 290 ml cartridge, other packaging on request

Shelf life

15 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: Porous surfaces should

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be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). 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. 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 Crystal 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 manual- or pneumatic caulking gun.

Cleaning: With Fix ALL Cleaner immediately after use. Cured T-Rex Power Crystal 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

- T-Rex Power Crystal is paintable with waterbased 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 Crystal 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 Power Crystal is not suitable for expansion joints.
- Do not use in applications where continuous water immersion is possible.
- T-Rex Power Crystal has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- T-Rex Power Crystal can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- T-Rex Power Crystal cannot be used on natural stone.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remains will stimulate the development of fungi.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- When applying, make sure not to spill any sealant on the surface of materials. Taping the surface around the joint can prevent this.
- 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.

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- 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 Crystal 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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