SOUDAL

Technical Data Sheet

T-Rex Power Turbo

Technical Data:

Base	SMX Hybrid Polymer	
Consistency	Stable paste	
Curing system	Moisture curing	
Skin formation*	5 min	@ 75ºF (24°C) & 50% relative humidity
Curing speed *	2 mm/24h → 3 mm/24h	@ 75ºF (24°C)& 50% relative humidity
Hardness**	65 ± 5 Shore A	ASTM C 661
Density	1.52 g/mL	
Elastic recovery**	> 75 %	ISO 37
Maximum allowed distortion	± 25 %	ASTM C 719
Tensile Strength	551 psi	ASTM D 412
Modulus	435 psi	ASTM D 412
Elongation	200 %	ASTM D 412
Hand tight (*)	After 20 min (after pressing firmly)	
Adjustable until	5 min	
Temperature resistance**	-40°F (-40°C) → 194°F (90°C)	
Application temperature	41°F (5°C) → 95°F (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 Turbo is a high quality, neutral, elastic, one-component adhesive-sealant with very fast strength build-up based on SMX-polymer.

Properties:
- Quickly manipulable and very fast build-up of strength with thin adhesive layer and on porous substrates.
- Very high final strength
- Good extrudability
- Good adhesion to most common substrates, even on slightly wet substrates
- Permanently elastic after curing
- Can be painted with water based systems
- Good weather and UV resistance
- No staining on porous surfaces such as marble, granite and other natural stones

Applications:
- Bonding in building and metal industry.
- Elastic bonding of objects, panels, profiles and other pieces on the most common substrates.
- Sealing and bonding in the building and construction industry.

Packaging:
Color: white
Packaging: 9.8 fl oz. (290 mL) cartridge

Shelf Life:
15 months in unopened packaging in a cool and dry storage place at temperatures between 41°F (5°C) and 77°F (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, treated wood, aluminium, natural stone, plastics, ...
Nature: rigid, clean, dry or slightly moist, free of dust and grease.
Surface preparation: Porous surfaces should be primed with Primer 150. Prepare nonporous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). T-Rex Power Turbo has been tested on the following metal surfaces: steel, AlMgSi1, electrolytic galvanised steel,

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AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. T-Rex Power Turbo also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, 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 Turbo is not recommended in these applications. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or coppercontaining materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

Application method: Apply the adhesive by means a caulking gun in uniform adhesive strips or dots (every 15 cm) on one of the substrates. Always apply an adhesive dot or strip on the corner and edges of panels. Do not apply the glue in a closed circumference, but interrupted. Bond the substrate and tamp with a rubber hammer. If necessary, support the bonded materials. For bonding on absorbent and porous substrates with thin adhesive layer, the adhesive is already hand tight after approx. 20 minutes and can be loaded after about 3 hours. Thicker adhesive layers or nonabsorbent substrates extend the curing time.
Cleaning: Clean with Soudal Swipex immediately after use. Cured Fix ALL Crystal can only be removed mechanically.
Finishing: With a soapy solution before skinning.
Repair: With the same material.

Health- and Safety Recommendations

Take the usual labor hygiene into account. Consult label and material safety data sheet for more information. Dangerous. Respect the precautions for use.

Remarks

- T-Rex Power Turbo is paintable with most common paints. Due to the wide variety of lacquers and paints, a compatibility test is always recommended.
- The drying time of alkyd resin based paints may increase.
- T-Rex Power Turbo can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Not suitable for sanitary applications.
- Turbo can be used for bonding of natural stone, but it cannot be used as a joint sealant on this type of surface.
- When applying, make sure that the surface of the materials is not smudged with sealant.
- 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.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Turbo has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.

Standards and certificates

ASTM C 920, Type S, Grade NS, Class 25, Use T, NT, M, A, G* and O**, Federal Specification TTS 00230C, Type II, Class A, USDA approved

Environmental clauses

Leed regulation:
T-Rex Power Turbo 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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