T-Rex Power

Technical data

Base	Silyl-terminated polymer	
Sag	No sag in vertical displ. @120ºF	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	5 minutes	@ 23°C (75ºF) & 50% relative humidity
Tack-free time (*)	20 minutes	ASTM C 679
Curing time (*)	24-48 hrs, 6 mm (1/4") diameter bead	@ 23°C (75ºF) & 50% relative humidity
Hardness – Shore A	55 +/- 5	ASTM C 661
Tensile Yield	2.75 N/mm²	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 (41ºF & 77ºF)
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 (41ºF & 77ºF)

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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 compatibilty 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.