


Product:

 is a high quality, single component MS polymer based adhesive sealant with a high initial tack.

Characteristics:


- High performance mechanical properties.
- Combines high stiffness with very high bond strength.
- High green strength, quick build-up of end strength, high sheer strength after full cure.
- Does not contain isocyanates, silicone, solvent.
- Resists Mould.
- Flexible elastic rubber – movement accommodation up to 20%.
- No bubble formation within sealant (in high temperature and humidity applications).
- Very easy to tool and finish.
- Colour stability and UV resistance.
- Can be painted wet-on-wet in paint trains with most industrial paints.
- Withstands all climatic conditions.
- Minimal health and safety considerations.

Technical Characteristics-

Base:	MS Polymer
Consistency:	Paste
Curing System:	Moisture Cure
Skin Formation:	(20°C/65% R.V.) Ca. 5 min. *
Curing Rate:	(20°C/65% R.V.) 3 mm/24h *
Hardness:	(DIN 53505) 50 ± 5 Shore A
Specific Gravity:	(DIN 53479) 1,47 g/mL
Elastic recovery:	(ISO 7389) > 75 %
Maximum Deformation:	± 20 %
Temperature Resistance (fully cured):	-40°C to +90°C
Elasticity Modulus:	100 % (DIN 53504) 1,60 N/mm ²
Tear Strength:	(DIN 53504) 3,00 N/mm ²
Elongation at break:	(DIN 53504) 500 %
Shear test velocity:	> 2 N/mm ²
AlMgSi1:	2 mm 10 mm/min

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

**Bonding:**

 has an excellent adhesion on almost all substrates, and has been tested on the following metal surfaces:

Steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403.

Plastics that were tested include:

Polystyrene,

Polycarbonate (Makrolon®),

PVC,

Polyamide,

Glass fibre reinforced epoxy and polyester (GRP).

Note:

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.

NOTICE: bonding plastics like polycarbonate (ie Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates.

The use of  is not recommended in these applications.

There is no adhesion on PE, PP, PTFE (Teflon®) and PMMA (ie Plexi® glass).

Colour:

White

Packaging:

Cartridge 290 mL

Shelflife:

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

Resistance to chemical agents:

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis

Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons.

Substrates:

All usual building substrates, several metals and plastics (except PP, PE and PTFE)

Nature: clean, dry and free of dust and grease.

We recommend preliminary compatibility tests previous to application

Bonding Layer:

We recommend a bonding layer of at least 2mm to achieve a bond with maximum elastic properties.



Application Method:

Manual- or pneumatic caulking gun.

Application temperature: +5°C until +35°C.

To obtain optimum adhesion, the bonding surfaces must be clean, dry, and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.

Cleaning:

White Spirit or Surface Cleaner immediately after application and before curing.

Tooling:


Soapy solution before skin formation

Health- and Safety Recommendation:


Apply the usual industrial hygiene.

For more information check the MSDS

Remarks:

 may be painted with most types of coatings used in industrial applications, however due to the large number of coating systems available, we strongly suggest a compatibility test before application.

The drying time of alkyd resin based paints may increase.

 can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, polycarbonate, etc. may differ from manufacturer to manufacturer, we recommend a preliminary compatibility test


-When applying, make sure not to spill any sealant on the surface of materials.

Product Use

Many factors beyond ICS control and uniquely within user's knowledge and control can affect the use and performance of a ICS product in a particular application. Given the variety of factors that can affect the use and performance of an ICS product, user is solely responsible for evaluating the ICS product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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is manufactured by Soudal as T-Rex Powerbond and relevant MSDS should be applied.