

Turbo Fix & Go

Dialinas S.A.

Fast curing, elastic 1-component adhesive and sealant based on a SMP, with high initial adherence (high tack).

Product advantages

- High initial adhesion
- Free of solvents, isocyanates and silicones
- Very wide adhesion range
- Odourless
- Compatible with paints
- Shortly resistant up to +200°C for powder and thermal coating
- Very stable
- Adjustable
- Permanently elastic from - 40°C to + 90°C
- Very good sealing properties
- Very good durability
- Non-corrosive on surfaces
- Impact and vibration resistant (shock absorbing)

Technical data

Chemical base	Silane modified polymer
Consistency	stable
Mechanism of curing	1 comp. moisture curing
Shore-A-hardness, DIN 53505	58
Modulus elongation at 100%, DIN 53504 S2 *	ca. 2.2 N/mm ²
Elongation at break, DIN 53504 S2 *	ca. 200%
Tensile strength, DIN 53504 S2 *	ca. 3.2 N/mm ²
Tooling time	max. 8 min.
Curing rate after 24h	≥ 3.0 mm
Curing rate after 48h	≥ 4.5 mm
Density	1.41 ± 0.05 g/cm ³
Volume change, DIN EN ISO 10563	≤ 10%
Temperature resistance after curing	- 40 °C to + 90 °C
Application temperature	+ 5 °C to + 40 °C

All measurements were performed under normal conditions (23 °C and 50 % relative humidity).

* The data are based on measurements after 3 months.

Application

Flexible, immediate supporting bond in the area of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, car body, wagons, vehicles and container construction. For non-supported bonds and where a fast, continuous working process is required. Bonding in areas of food processing industries.

Substrate range

Suitable materials are metals, powder-coated, varnished, galvanised, anodised, chromed or hot zinc dipped surfaces, various plastics, ceramics, stone, concrete and wood. Due to the large variety of different plastics and compositions as well as materials which are susceptible to cracks, preliminary tests are recommended.

Technical data sheet Turbo Fix & Go

Substrate preparation

To achieve reproducible results the substrate has to be pre-treated according to the state of technology. All undefined surfaces must be removed using suitable methods. Apply the adhesive/sealant promptly to the prepared surface. Depending on the substrate and the expected requirements a mechanical or chemical pre-treatment is recommended respectively cleaning with rubbing alcohol, isopropyl or acetone. For application the surface has to be clean, durable and free of dust, oil and grease. The compatibility with adjacent materials, coatings etc. must be determined in advance.

Adhesion promoter

With most materials a good adhesion is achieved even without adhesion promoter. In the case of high moisture influence we recommend our Adhesion Promoter V40 on non-porous materials, Adhesion Promoter V21 on open porous materials. For thermo-painted or powder-coated surfaces and plastic materials we recommend our Adhesion Promoter V40. Preliminary tests are recommended.

Processing

- Can be applied directly from the cartridge / bag using a suitable caulking gun (manual, air, battery)
- Cut the nozzle tip according to the joint width
- V-nozzles are recommended for bonding applications
- Depending on the bonding surface, material expansion, tension and mechanical stresses a layer thickness of 1 - 6 mm is recommended
- Can be applied with automatic dispensing equipment
- For vapour permeable substrates the material can be applied in a large area using a notched trowel
- The bonding must take place within the processing time
- Supporting the bonded parts is usually not necessary
- Non-cured adhesive can be removed with rubbing alcohol or isopropyl
- Cured adhesive can only be removed mechanically

Paint compatibility

Due to the diversity of varnishes and paints on the market we recommend preliminary tests. Using paints based on alkyd resins may delay the drying process. After cleaning with acetone joints can be varnished at any time. For burning process the material can be exposed, when fully cured, in short term to elevated temperatures.

Chemical resistance

- Good against water, aliphatic solvents, oils, grease, diluted inorganic acids and alkalis
- Moderate against esters, ketone and aromatics
- Not resistant against concentrated acids and chlorinated hydrocarbons

Shelf life and storage conditions

- Shelf life depending on packaging
- Store cool and dry (10 - 25 °C)
- Further information on request

Work and environmental safety

Important information about work and environmental safety is available on the material safety data sheet.

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