

Turbo-Fix Coloured Dialinas S.A.

Permanently elastic, 1 component high shore adhesive based on SMP. Very wide adhesion range.

Product advantages

- Simple processing
- Free of solvents, isocyanates and silicones
- Very wide adhesion range
- Suitable for use in AHU facilities according to VDI 6022
- Suitable for use in foodstuff-related areas
- Odourless
- Chemical neutral polymerisation
- Compatible with paints
- Shortly resistant up to +200°C for powder and thermal coating
- Permanently elastic from - 40°C to + 90°C
- High mechanical strength
- Non-corrosive on surfaces
- Impact and vibration resistant (shock absorbing)
- Very good sealing properties
- Very suitable for Minergie-ECO

Technical data

Chemical base	Silane modified polymer
Consistency	stable
Mechanism of curing	1 comp. moisture curing
Shore-A-hardness, DIN 53505	60
Modulus elongation at 100%, DIN 53504 S2 *	ca. 2.3 N/mm ²
Elongation at break, DIN 53504 S2 *	ca. 250%
Tensile strength, DIN 53504 S2 *	ca. 3.3 N/mm ²
Tooling time	max. 10 min.
Curing rate after 24h	≥ 2.0 mm
Curing rate after 48h	≥ 3.0 mm
Density	1.54 ± 0.05 g/cm ³
Volume change, DIN EN ISO 10563	≤ 8%
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 bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, car body, wagon, vehicle and container construction. 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.

Meets the standards

- eco-bau 1st priority ECO-BKP
- ISEGA (food production area)
- AC-plants according to VDI 6022

To qualify your product, please note that an appropriate test certificate must be issued on your name for most standards. For further information we are at your disposal.

Technical data sheet Turbo-Fix Coloured

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
- 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.

merz+benteli ag

Freiburgstrasse 616
CH - 3172 Niederwangen
Phone +41 31 980 48 48
Fax +41 31 980 48 49
info@merz-benteli.ch
www.merz-benteli.ch

Last Update: 31.07.2020

Our information is based on experiences in lab and practice. Their publication occurs, however, without takeover of a liability for damages and losses which are to be put down to these information, as there the practical application conditions are lying outside of the enterprise's control. The user is not released from the necessity to carry out own attempts for the planned applications under practical conditions. Due to the different materials, processing methods and local factors onto which we have no influence, no guarantee – also in patent-legal respect – can be taken over. We recommend therefore sufficient own attempts. By the way we refer to our General Business Conditions. Technical characteristics according to the Technical Data Sheets up to their expiry date which is available upon request and which is available on our website. Technical changes reserved. Contents examined and released by merz+benteli ag, CH - Niederwangen/Berne

