

Turbo MS Economy transparent Dialinas S.A.

Transparent, permanently elastic 1-Component Adhesive Sealant based on SMP.

Product advantages

- Simple processing
- Simple finishing, cleaning
- Free of solvents, isocyanates and silicones
- Wide adhesion range
- Odourless
- Compatible with paints
- Very good sealing properties

Technical data

Chemical base	Silane modified polymer
Consistency, DIN EN ISO 7390	stable, ≤ 3 mm
Mechanism of curing	1 comp. moisture curing
Shore-A-hardness, DIN 53505	40
Modulus elongation at 100%, DIN 53504 S2 *	ca. 1.2 N/mm ²
Elongation at break, DIN 53504 S2 *	ca. 250%
Tensile strength, DIN 53504 S2 *	ca. 2.4 N/mm ²
Tooling time	max. 5 min.
Curing rate after 24h	≥ 2.0 mm
Curing rate after 48h	≥ 3.0 mm
Density	1.08 ± 0.05 g/cm ³
Volume change, DIN EN ISO 10563	≤ 4%
Temperature resistance after curing	- 40 °C to + 80 °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 7 days.

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 of parts where a coloured adhesive would be distracting. For connection joints in the inner area. Not suitable for joints on glass in window areas. Can lose its original transparency under influence of UV light.

Substrate range

Suitable materials are metals, powder-coated, varnished, galvanised, anodised, chromed or hot zinc dipped surfaces, various plastics, ceramics, 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

- EMICODE EC1Plus
- Eurofins IAC Gold

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 MS Economy transparent

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. Perfect sealing work requires correct joint dimensions and pre-treatment of the surfaces. For dimensioning of building construction joints see DIN standard 18540 and SIA standard 274. 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

- Place container into suitable gun (manual, air, caulking gun)
- Observe and comply with the expiry date of all materials used
- Cut the nozzle tip according to the joint width
- V-nozzles are recommended for bonding applications
- Prepare the joint according to the substrate preparation and pre-treatment description
- 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
- Apply the material bubble free into the joint
- For joint smoothing we recommend using our tooling agent and if necessary joint tools
- Non-cured adhesive can be removed with rubbing alcohol or isopropyl
- Cured adhesive can only be removed mechanically
- Thin layers should be avoided due to weather influence which may cause embrittlement

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.

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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