Technical data sheet

Gomastit VG30

Gomastit VG30 is an elastic MS-Hybrid Polymer sealant for the glazing of wooden, metal and plastic windows. Particulary resistant against UV and weather influences. Gomastit VG30 is almost odourless and paintable.

Product advantages

- Universally compatible with paints
- Simple processing
- High elasticity, good mechanical strength
- Long open time
- Free of solvents, isocyanates and silicones
- Odourless
- Non-corrosive on surfaces
- Vibration absorbing
- Very wide adhesion range

Technical data

Shore-A-hardness, DIN 53505	23
Modulus elongation at 100%, DIN 53504 S2	ca. 0.5 N/mm²
Elongation at break, DIN 53504 S2	ca. 300%
Elastic recovery, DIN EN ISO 7389, at elongation of 100%	≥ 70%
Tensile strength, DIN 53504 S2	ca. 1.4 N/mm²
Movement capability	25%
Consistency, DIN EN ISO 7390	Stable, ≤ 3 mm
Tooling time	max. 30 min.
Curing rate after 24h	≥ 2.5 mm
Curing rate after 48h	≥ 3.5 mm
Density	1.38 ± 0.05 g/cm³
Volume change, DIN EN ISO 10563	≤ 3%
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).

Application

Connection joints on windows, doors, etc. Very good for overpainting without drying delay and paint flaws.

Substrate range

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

Meets the standards

- AC-plants according to VDI 6022
- EMICODE EC1Plus R
- Eurofins IAC Gold
- IMO FTPC Parts 2+5
- ISEGA (food production area)
- ISO 11600-G25-HM

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Substrate preparation
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. For maximum adhesion strength a dry, clean, grease free and structurally proper surface is required. On smooth, non-absorbent substrates a pre-cleaning with rubbing alcohol or isopropanol is recommended. Porous surfaces may need to be grinded, free of dust and cleaned. During renovations the old sealant must be removed as much as possible. The chemical base of the old sealant must be clarified. We recommend to consult our application engineers. 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 moisture influence on absorbent or difficult substrates, we always recommend the application of Adhesion Promoter V21 in advance. For non-absorbent substrates we recommend the application of Adhesion Promoter V2. For thermopainted or powder-coated surfaces we recommend our Adhesion Promoter V40. In the case of special plastics an improvement of the adherance can be achieved with Adhesion Promoter V30. Preliminary tests are recommended. Note: Adhesion promoter and thinly elapsed sealant leave stains that can not be completely cleaned.

Processing
- Prepare the joint according to the substrate preparation and pre-treatment description
- Observe and comply with the expiry date of all materials used
- Cut the nozzle tip according to the joint width
- Place container into suitable gun (manual, air, caulking gun)
- Apply the material bubble free into the joint
- The joint must be applied within the tooling time
- For joint smoothing we recommend using our tooling agent and if necessary joint tools
- Non-cured sealant can be removed with rubbing alcohol or isopropanol
- Cured sealant can only be removed mechanically

Paint compatibility
Due to the diversity of varnishes and paints on the market, we recommend preliminary tests. If applied to painted or plastered substrates, a sufficient drying time of the paint / plaster must be kept (in general 10 days). 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

Colours
- white
- concrete grey
- pine
- brown
- black
- other colours on request

Packaging
- Cartridges of 310 ml in carton of 12 units
- Sausages of 600 ml in carton of 12 units

Shelf life and storage conditions
- 18 months from date of production
- Store cool and dry
- 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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