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DATA SHEET

Fortafix High Temperature Adhesives

Product: HT BONDFLOW 300 – FORTAFIX RTV SILICONE SEALANT/ADHESIVE

Principal Characteristics

Pourable/Paintable Flexible - elastomeric adhesive sealant to 300°C.

HT BondFlow 300 - a pourable/paintable High Temperature Resistant RTV Silicone sealant/adhesive, based on Fortafix HT Flexseal 300.

Can be used for applications where jointing sealing or fixing of materials is required.

A maximum continuous operating temperature of 300°C, when fully cured

Ready to use. Pourable low viscosity liquid - Black Colour

Excellent adhesion between most substrates.

Highly flexible - suitable for gap filling applications and jointing materials of different thermal expansions

Product offers adhesion to many engineering & building materials substrates

Excellent water/weather resistance & aging properties – can be used externally

Product will exhibit some shrinkage on curing (30% - 50%)

Fair/average resistance to mineral oils

Maximum cure depth: 10 mm

Typical Applications

- Building & Construction
- Engineering
- Protective Surface Coatings
- High Temperature Concrete
- Chemical Industries

Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS – HT BONDFLOW 300 RTV Silicone Sealant/ Adhesive).
- RoHS Compliant

Storage

Once opened this product is moisture sensitive avoid continuous exposure to air.

Product should be stored in original packaging between 5 - 30°C.

Shelf life – 24 months.

Guidelines for Use

Application

Application – Concrete Joint Sealant

Always work in a well-ventilated area.

Ensure all concrete surfaces to be sealed/jointed are clean with a good surface texture.

Ensure all concrete surfaces to be sealed/jointed are free from surface laitance, oil based release agents, surface dust etc

Stir product thoroughly before using

Pour the sealant to a maximum depth of 10 mm

Protect the joint from freezing and the ingress of excessive moisture (e.g. rain)

Allow to fully cure (typically allow 3-4 days, although cold weather will extend this period) - humidity and ambient temperature can alter curing rate.

Assess extent of cure of joint – use sharp point or needle, and ensure adhesive film is fully cured through

Assess shrinkage and calculate amount of BondFlow HT300 required for next application

Continue as described above until joint is fully sealed.

Curing Schedule

The curing of this product may vary depending on temperature, humidity, porosity of substrates, glue line thickness and area etc.

A rough guide for typical applications at room temperature and average humidity would be approximately 36-48 hours.

Typical rate of cure (20°C) : 3-5 mm depth per 24 hours

Typical maximum cure depth: 10 mm

Once cured, the strength of the silicone will continue to increase for up to 7 days.

Curing may be accelerated by the application of gentle heat (do not exceed 70°C).

Characteristics:

Max. Continuous Temperature	300°C	Min. Continuous Temperature	- 60°C	Wet Density	0.95 g/cm ⁻³
Coverage Rate	tba	Shrinkage	30% - 50%	Tensile Strength	2.00 MPa
Modulus @ elongation	0.94 MPa	Elongation at Break	250%	Packaging	5 litre can