

High Strength Retainer 301476 Technical Data Sheet

Description

High Strength Retainer is a single part anaerobic securing compound, designed for fitting cylindrical metal assemblies, particularly where consistently clean surfaces cannot be assured.

Applications

High Strength Retainer will secure all types and sizes of Bearings, Shafts and Cylindrical parts and is semi-permanent. High Strength Retainer is as the name suggests, a high strength product, which cures when confined in the absence of air between close fitting metal surfaces, and prevents loosening and leakage from shock and vibration.

Useful hints/notes

Where cure speed is long, acceptable bond times can be obtained by treating the parts with an Anaerobic Activator.

Properties

Fast fixture, usually 30 minutes for small gaps.
 High Strength. Removable with the application of heat.
 Typical Strength 15 N/mm²

Procedure for application

Product is normally hand applied from the bottle.

- Degreased parts will assist results.
- Apply sufficient product to fill joint.
- Assemble parts in traditional manner.
- To achieve handling strength allow product to cure (approximately 30 minutes).
- Store in cool conditions.
- Keep out of direct sunlight.

Typical properties (Uncured)

Resin	Urethane Methacrylate
Colour	Green
Viscosity range (typical value)	100-150 cps (125 cps)
Gap fill	Up to 0.2 mm
Shelf life	12 months @ 20°C
Specific gravity	1.10
Operating temperature	-55°C to +120°C

Typical properties (Cured)

Functional Cure speed (Steel)	30 mins to 48hrs (depending on gap fill)
Final Cure speed (Steel)	6 to 12 hrs (small gap fill)
Shear strength, ISO10123. 30mins@20°C. Steel Pin and Collar	>= 13.5 N/mm ²
Shear strength, ISO10123. 24 hrs@20°C. Steel Pin and Collar	>= 22.5 N/mm ²
Coeff. of Thermal Expansion	80 x 10 ⁻⁶
Coeff. of Thermal Conductivity	0.1

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Chemical / Solvent resistance

Aged under the following conditions (tested at 22°C)

Environment	°C	% of initial strength		
		100hrs	500hrs	1000hrs
Motor oil	125	100	100	100
Unleaded petrol	22	100	90	85
Brake fluid	22	100	90	80
Water / Antifreeze mix	87	100	90	80
Ethanol	22	100	100	75
Acetone	22	90	90	90

Storage

Store in a cool area out of direct sunlight

Shelf Life: 12 months @ 20°C

Health & Safety in use

For safe handling information on this product, consult the Material Safety Data Sheet.

Important Note

Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves self that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable and that in the light of continued research and development the information relating to each product has not been superseded.

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