

HYLOTYTE RED 100

Semi-hardening Gasketing Compound

Description

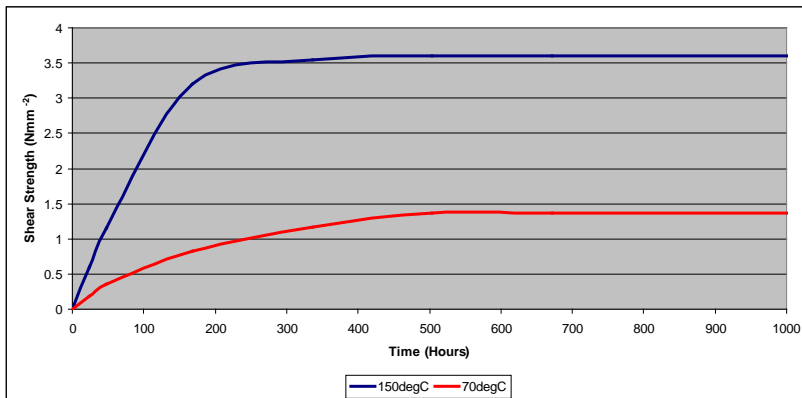
Hylotype Red 100 is a synthetic, semi-hardening jointing compound that has excellent gap filling properties. Hylotype Red 100 is resistant to a wide range of fluids, especially water (including salt water), anti-freeze, and synthetic oils. These properties mean Hylotype Red 100 is highly effective at sealing pitted or roughly machined surfaces, particularly those in contact with water and anti-freeze.

Typical Properties

Appearance	Thixotropic Red Gel
Specific Gravity (ASTM D4659)	0.90-0.95
Temperature Range	-50°C - 180°C (-58°F-356°F)
Volatile Matter (MSRR 9055)	40-44%
Viscosity (Spindle 5 @2.5rpm) (BS 5350: Part B8)	55,000-75,000 cps
Area covered by 80ml	1.36 m ²
Product coverage after drying	4 mgcm ⁻²

Heat Aging Properties

Hylotype Red 100 will form an instant seal, regardless of temperature. At elevated temperatures however, the product becomes harder and the adhesion to the substrate increases, allowing for improved gap filling.



Shear Strength (BS5350) vs. Time

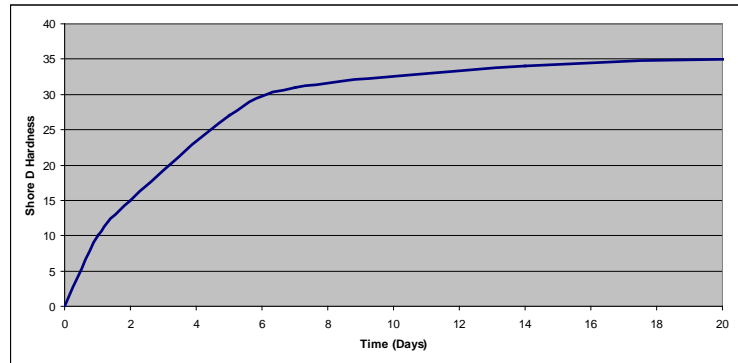
Aluminium lap shears were bonded together with Hylotype Red 100 and heat aged at 70°C (158°F) and 150°C (302°F). The bond reached maximum strength after 200 hours at 150°C (302°F) and 500 hours at 70°C (158°F).

Information given in this publication is based upon technical data gained in our own and other Laboratories and is believed to be true. However the material is used in conditions beyond our control thus we can assume no liability for results obtained or damages incurred through the application of the data present herein.

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Shore Hardness (ISO868) Vs. Time

A sample of Hylotyte Red 100 was left at 150°C (302°F) and heat aged. The Shore hardness of the sample was recorded and reached a maximum of 35 after about 400 hours (18 days)



Fluid Resistance

Hylotyte Red 100 has excellent resistance to a wide range of fluids. The results below show the percentage shear strength remaining after exposure to certain test fluids:

Conditions	Shear Strength			
	24h	100h	500h	1000h
Air (70°C/158°F)	100%	100%	100%	100%
Air (150°C/302°F)	100%	100%	100%	100%
Water (70°C/158°F)	100%	100%	100%	100%
Mineral Oil (150°C/302°F)	100%	100%	100%	100%
Synthetic Oil (150°C/302°F)	100%	100%	100%	100%

The samples were pre-heated at 150°C (302°F) for 100 hours before being exposed to the fluid for 1000 hours. Shear strength tests (BS5350) were performed on the samples at certain intervals and the change in strength was recorded. Please see the Hylotyte Red 100 Fluid Resistance Chart for more information.

Typical applications

Major applications for Hylotyte Red 100 include:

- Sealing cooling systems such as water pumps, radiators, thermostat housings
- Sealing sump and gearbox housings
- Preventing galvanic corrosion between dissimilar metals
- Environmental seals, particularly those that may be exposed to salt water

Hylotyte Red 100 is suitable for use on metals and plastics and can also be used as a gasket dressing or a thread sealant.

Instructions for use

Hylotyte Red 100 should be applied to clean dry surfaces. Apply a continuous bead of product to both mating surfaces. Once applied sufficient time should be given to allow the product to become tacky before the joint is assembled. Due to the nature of the compound, re-torquing of assembled components may be required.

Hylotyte Red 100 can be removed using Hylomar Cleaner. If the product has been used at temperatures above 100°C (212°F), additional scraping may be necessary.

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Handling and Safety Properties

Due to the solvent, Hylotype Red 100 is extremely flammable. Once the solvent has evaporated the product is considered non-hazardous. For more information please see the product safety data sheet.

Shelf life

2 years when stored between 5⁰C and 25⁰C (41⁰F and 77⁰F) in the original, unopened container.

Packaging

Hylotype Red 100 is available in 40ml (1.35fl.oz) and 80ml (2.7fl.oz) tubes. Please contact the sales team for details.

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