



A QUAKER HOUGHTON COMPANY

Product Data Sheet

Ultraseal Rexeal 100 Sealant

Rexeal 100 is the market leading recycling sealant, offering unrivalled sealing performance and significant commercial and environmental benefits compared to conventional non-recycling sealants. It is formulated to allow material washed from the surface of the casting to be separated, recovered and reused for processing. The product provides a number of performance, cost saving and environmental benefits compared to non-recycling sealants.

Rexeal 100 is designed for sealing porosity in metal castings and powder metal parts and provides best-in-class chemical resistance against lubricants, fuels, hydraulic fluid, antifreezes, refrigerants (R134) and acids.

Rexeal 100 has gained approvals from major automotive OEMs and many of their suppliers and has Qualified Product status for the internationally recognised US Military Specification MIL-I-17563C.

Benefits

- Up to 95% recyclable
- Permanent seal
- Reduce water and sealant consumption
- Reduce waste water treatment costs
- Best-in-class chemical and temperature resistance
- Ultimate process stability
- Improve uptime and productivity
- Enhanced washing characteristics
- Environmentally friendly formulation

| General | | | |
|--|-------------------------|--|----------------------------|
| APPEARANCE | Clear pale straw liquid | ODOUR | Mild methacrylate |
| VISCOSITY <small>20°C Seta Zahn No 1</small> | 26 - 30 seconds | S.G. <small>20°C</small> | 0.910 - 0.935 |
| FLASH POINT <small>Twin Pack (uncatalysed)</small> | >100°C | GEL TIME <small>0.8% DB42, degassed</small> | 90 - 180 seconds |
| CONTAMINATION TOLERANCE | Very good | WASHABILITY | Very good |
| POT LIFE <small>Under normal operating conditions</small> | Indefinite | SHELF LIFE <small>Under normal storage conditions</small> | 12 months** 6 months*** |
| TEMPERATURE RANGE* <small>Cured phase</small> | -76 / +220°C | US MIL-I-17563C APPROVED | Yes |

Approvals

- US Military Specification MIL-I-17563C
- Approved by automotive manufacturers and their supply chain worldwide

| Chemical Resistance | | | |
|--|------------|-------------|---------|
| US MIL-I-17563C Test Conditions, Impregnated US MIL Test Rings, Test Pressure 50 psi | | | |
| Environment | Time | Temperature | Result |
| WATER | 14 days | 100°C | No Leak |
| OIL | 14 days | 99°C | No Leak |
| HYDROCARBON FLUID | 14 days | 23°C | No Leak |
| CARBON REMOVAL FLUID | 30 minutes | 23°C | No Leak |
| LUBRICATING OIL | 48 hours | 121°C | No Leak |
| TURBINE FUEL | 48 hours | 23°C | No Leak |
| ETHYLENE GLYCOL | 14 days | 149°C | No Leak |
| HYDRAULIC FLUID | 14 days | 99°C | No Leak |
| FUEL | 48 hours | 23°C | No Leak |
| DIESTER GREASE | 48 hours | 23°C | No Leak |
| SULPHURIC ACID (18%) | 2 hours | 23°C | No Leak |
| STODDARD SOLVENT | 48 hours | 23°C | No Leak |
| ETHYL ALCOHOL | 14 days | 23°C | No Leak |

Find out more

sales@ultraseal-impregnation.com
+44 (0)24 7625 8444

* Specified conditions

**Twin Pack

***Single Pack

Chemical Resistance

Ultraseal International Test Conditions, Impregnated US MIL Test Rings

Test Pressure 50 psi

| Environment | Time | Temperature | Result |
|-------------------|----------|----------------------------|---------|
| ENGINE OIL | 14 days | 150°C | No Leak |
| BRAKE FLUID | 14 days | 150°C | No Leak |
| ETHYLENE GLYCOL | 14 days | 150°C | No Leak |
| HYDRAULIC FLUID | 14 days | 150°C | No Leak |
| UNLEADED PETROL | 14 days | 25°C | No Leak |
| WATER | 14 days | 100°C | No Leak |
| PAG OIL | 14 days | 150°C | No Leak |
| R134A REFRIGERANT | 6 months | Ambient (-10°C to 35°C) | No Leak |

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