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TECHNICAL DATA SHEETS TORQUE 20RC

Description:

TORQUE 20RC is a high strength anaerobic adhesive for locking and sealing thread connections. Highly resistant to heat, corrosion, vibrations, water, gases, oils, hydrocarbons and many chemicals. DIN-DVGW approved for gas thread connections according to EN 751-1 (approval DIN- DVGW NR. NG-5146AR0573. Approved for potable water (KTW-DVGW). Maintains unaffected curing properties up to 200 °C on any metal surface.

PROPERTIES OF UNCURED PRODUCT (typical value)

Composition Methacrylate Ester Appearance Green liquid

Specific Gravity (77°F/25°C g/ml) 1.1 Viscosity,Brookfield RVT(77°F/25°C mPa.s)

Spindle 4- 2,5 rpm 2500 to 4000 mPa.s

Flash Point, TCC >100°C
Shelf life at 20°C 1 year
Storage temperature 8° - 28°C

PROPERTIES OF CURED PRODUCT (typical value)

Functional strength at 24 hrs 20° on steel

ENVIRONMENTAL RESISTANCEHot strength at temperature

| Test.Temp.°C | % retained strength |
|--------------|---------------------|
| 50° | 110% |
| 100° | 110% |
| 150° | 105% |
| 200° | 85% |

Heat aging

Samples aged 3000 hours at indicated temperature and tested at room temperature.

Test temp. °C % retained strength 180° 140% 150° 170%

Chemical / Solvent Resistance

Specimens immersed for 1000 hrs at indicated temperature and tested at room temperature.

| | Test Temp.° C | % retained |
|----------------------|---------------|------------|
| strength | · | |
| 50/50 Water / Glycol | 87 | 80 |
| Unleaded Petrol | 22 | 95 |
| Motor Oil | 125 | 100 |
| Brake Fluid | 22 | 100 |
| Acetone | 22 | 95 |



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CURE SPEED VS. SUBSTRATE

| % Full strength | Steel | Aluminium |
|-----------------|----------------|-----------|
| 25 | 2 hrs | 8 hrs |
| 50 | 2hrs and 30min | |
| 100 | 15-72 hrs | |

CURE SPEED VS. JOINT GAP

| % Full strength | Gap 0,05mm | Gap 0,30mm |
|-----------------|----------------|-------------------|
| 25 | 2 hrs | 13 hrs |
| 50 | 2hrs and 30min | 20 hrs |
| 100 | 15-72 hrs | 72 hrs |

CURE SPEED VS. TEMPERATURE

| % Full strength | Temperature | |
|-----------------|-------------|-----------|
| | 5°C | 40°C |
| 25 | 28 hrs | 25 min |
| 50 | | 40 min |
| 100 | | 15-72 hrs |

DIRECTIONS FOR USE

Clean and degrease parts for best results, apply product on male threads only, use enough quantity to fill joint completely. Assemble parts, avoid overtighting due to lubricating effect of product. Allow time to cure according to data sheet.

For potable water: approved for use with cold water, allow assemblies to cure 24 hrs before water contacting.

GENERAL INFORMATION

This product is not recommended for use with strong oxidizing materials.

Where aqueous washing systems are used to clean the surfaces before bonding, these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics, users must check compatibility of the product with such substrates.

Engineering Excellence

For technical information and support call 1-800-552-0299 or visit our website at

