

SO22R

Epoxy Microspheres SO22R

PRODUCT DESCRIPTION

SO22R is a pre-applied adhesive product for locking and sealing applications on threads. The SO22R product is applied in our factory, and remains inert until final assembly. Once assembled in the mating part, the pre-applied film cures to lock and seal the assembly.

APPLICATIONS

Fasteners coated with SO22R product prevent loosening through vibration to provide locking and sealing of threaded assemblies for applications such as: screws, nuts, threaded fasteners...

CARACTERISTICS

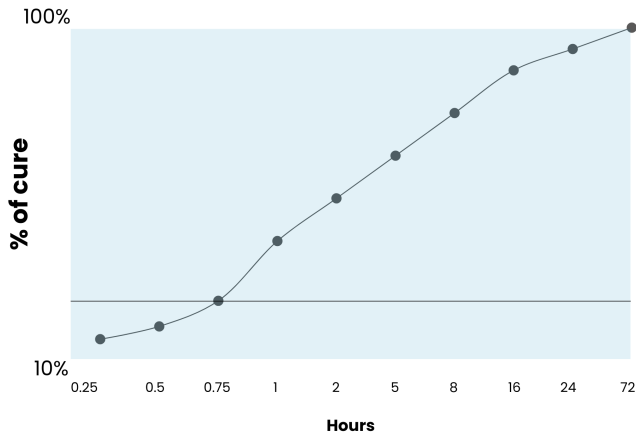
| | |
|--------|-------------------------------|
| Type | Epoxy microencapsulated Resin |
| Colour | Orange |

PROPERTIES OF ASSEMBLED FASTENERS

| | |
|-----------------------------|--------------------------------------|
| Screw-in torque (Cfv) | 0.55 N.m |
| Breakaway torque (Cdec) | 30 N.m |
| Prevailing off-torque (Cfd) | 22 N.m |
| Temperature range | -54°C / +150°C |
| Cure time at 23°C | 72 hours (100%) |
| Coefficient of friction | 0,14 Zinc organic 0,19 Zinc plate |

Note : Tests are conducted on M10x1,5 class 10.9 zinc organic finish bolts and M10x1,5 zinc nuts. Performance may vary depending on fastener size and finish.

CURE SPEED



The graph shows the rate of cure for a M10

ENVIRONMENT AND FLUID RESISTANCE

| | Temperature | % Initial Strength |
|--------------------|--------------|--------------------|
| SW30 Synthetic oil | 150°C | 88 |
| Brake fluid | 150°C | 94 |
| 50/50 coolant | 100°C | 109 |
| Transmission fluid | 150°C | 104 |
| Gasoline | 23°C | 100 |
| Gasoline / Ethanol | 23°C | 108 |
| 15W40 Lubricant | 150°C | 110 |
| Cyclic aging | -40 to +50°C | 261 |
| Heat age | 150°C | 84 |

Note : The tests were conducted on M10x1,5 zinc organic finish bolts and a zinc plate nuts. Assembled fasteners were aged at the temperature listed above for 168 hours and allowed to cool to room temperature before breakaway test.

SHELF LIFE & STORAGE

Coated fasteners with SO22R product are recommended to be stored for 2 years before final assembly in a cool and dry location with temperatures between -10°C to +35°C. Optimal storage is 25 +/-4° C with 50% or below relative humidity.

SPECIAL NOTE

The data contained on this data sheet is representative of the performance of fasteners coated with SO22R product. However, we recommend to conduct preliminary tests to determine suitability for your application.