

## SO21B

### Epoxy Microspheres SO21B

#### PRODUCT DESCRIPTION

SO21B is a pre-applied adhesive product for locking and sealing applications on threads. The SO21B 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 SO21B product prevent loosening through vibration to provide locking and sealing of threaded assemblies for applications such as: screws, nuts, threaded fasteners...

#### CARACTERISTICS

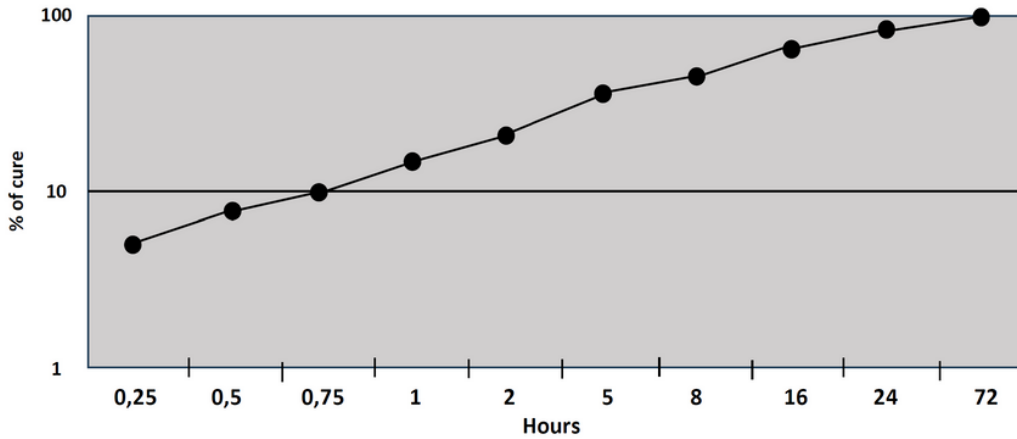
Type	Epoxy microencapsulated Resin
Colour	Blue

#### 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 SO21B 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 SO21B product. However, we recommend to conduct preliminary tests to determine suitability for your application.