

Editing date:

March 2011

Edition #:

01.

Revision date:

March 2015

Revision #:

03.

SW 820

Fittings sealant

DESCRIPTION

SW820 is recommended to seal pipe fittings for air, oil, CFCs, gas, fuel and many other chemicals.

SW820 replaces the PTFE tapes and the hemp. Its low friction coefficient ensures an easy assembly. Its thixotropic properties prevent the product from casting while the sealant is curing.

The product forms a medium resistance sealing film. The product is highly resistant to vibrations and to mechanical and thermal stress.

SW820 keep its sealing properties within a temperature range from -55 to + 150 °C with peak values up to 230 °C for short times.

SW820 is recommended and used by Faiveley Transport to seal the threaded joints of pneumatic piping (FT PN 0027708-000).

USE GUIDELINES

Clean and degrease the surfaces carefully using a specific product. Apply the proper quantity of **SW820** required to fill completely the gap between the coupled parts avoiding product excess. Wait for the curing time. Liquid product can damage coating and elastomers. Its contact with some kinds of thermoplastics, even accidental, might induce delayed stress-cracking events. **For applications on non-metal materials, please contact BB Technical Service.** To disassemble use common tools. If possible, heat at 150-250 °C (302°F – 482°F) to make the dismantling easiest. Remove mechanically any residue of cured product and clean parts with acetone.

CURING PERFORMANCE

The curing rate depends on the backlash existing between the coupled components, on the surfaces condition and on temperature. The initial functional resistance is usually reached in 1 – 3 hours and the final strength in 24 – 36 hours. When applied on protective coated surfaces and/or at low temperature, a shortest cure time can be obtained using a proper activator (please contact BB Technical Service).

CURING PROPERTIES

Zinc plated bolt M 10 x 20 - quality 8.8 - Nut h = 0,8.d at 25 °C

Handling time	15 -30 minutes
Functional cure time	1 - 2 hours
Full cure time	3 - 6 hours
Locking torque (ISO 10964) breakaway	18 - 24 Nm
Locking torque (ISO 10964) prevailing	7 - 14 Nm
Shear strength (ISO 10123)	3 - 16 N/mm ²
Temperature range	-55°C (-67°F)↔+150°C (+302°F)

HANDLING AND STORAGE

Keep the product in a cool and dry storage not over than +25°C. To avoid contaminations do not refill the containers with the residue of liquid product remaining after use. For more information about the product applications, storage and handling, please contact BB Technical Service.

CHEMICAL RESISTANCE

Test under the below listed conditions at the reported temperature after 24 hours from polymerization.

Substance	°C (°F)	Resistance after 100h	Resistance after 100 h	Resistance after 5000h
Motor oil	125 (257)	excellent	excellent	excellent
Gear box oil	125 (257)	excellent	excellent	excellent
Gasoline	25 (77)	excellent	excellent	excellent
Water/Glycol 50%	87 (188.6)	excellent	excellent	Good
Brakes oil	25 (77)	excellent	excellent	Good

For further information about the product resistance to other chemicals, please contact BB Technical Service.

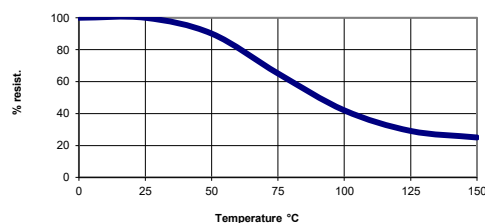
PHYSICAL PROPERTIES

Composition	anaerobic methacrylate
Colour	Yellow
Viscosity (25°C - mPas)	20.000 - 70.000
Specific gravity (g/ml)	1,1
Fluorescence	under UV light
Flash point	> 100°C (>212 °F)
Shelf life	1 year at 25 °C (77°F)
Gap filling	M80 or 2"/ 0,30 mm

ENVIRONMENTAL RESISTANCE

The hereunder graph shows in percentage the mechanical resistance trend vs temperature.

Steel specimen – ASTM 1002/DIN 53283



SAFETY AND HANDLING

Please refer to the Material Safety Data Sheet.

PACKAGING

SW820 is supplied in 75 ml bellow bottle packaged in 10 pcs box.

Note

The data contained herein are given for information only. BB Technical Service cannot assume responsibility for the results obtained by others whose methods are not under BB Technical Service control. It is user's responsibility to determine suitability for the user's purpose of any product mentioned herein. BB Technical Service disclaim all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of BB Technical Service products. BB Technical Service specifically disclaim any liability for consequential or incidental damages of any kind, including lost profits.



BB Technical Service S.R.L.

Via Torino, 5 - 20814 Varedo (MB) – ITALY ph. +39 (0) 362 576038
website: www.bbtechnicalservice.it - e-mail : info@bbtechnicalservice.it

Quality Management System
UNI EN ISO 9001:2015
approved by RINA