

FRENAFILETTI 320

Medium resistance threadlocker

Single-component, easy to apply
Blocks and seals all the threaded parts



FEATURES

It is very common that threaded couplings unscrew, due to a decrease of the friction between the flange and the head of the screw caused by any type of dynamic load, vibrations, shocks or temperature variations. The **FRENAFILETTI CAMP® Professional** are single component adhesives that completely fill the interstices between the threads and, by polymerizing in the absence of air and in contact with the metal, they create a plastic and flexible film, that preserves the friction between the threads. This prevents movements between the threaded parts and any loosening.

FRENAFILETTI 320 is an adhesive suitable for the threadlocking of nuts and bolts and other threaded parts, medium thixotropic, characterized by medium mechanical strength. The product polymerizes spontaneously when it is in the absence of air inside metal surfaces, with minimum backlash at least. The average mechanical resistance performed by **FRENAFILETTI 320** allows disassembly with normal tools, even a long time after application. **FRENAFILETTI 320** is highly resistant to water, oils, fuels, hydraulic and refrigerant fluids, gases and vapors. It prevents corrosion and seizure.

APPLICATIONS

FRENAFILETTI 320 is suitable for the threadlocking of threaded parts that must be possibly removed with conventional tools. Recommended for locking studs, nuts, screws and other threaded items. Replaces washers and nuts.

LIQUID PRODUCT FEATURES

Origin:	Anaerobic methacrylic resin
Color:	Blue
Viscosity 25°C (Brookfield 20 rpm):	2.000-4.000 mPa.s
Specific Weight (g/ml):	1,07
Flammability:	>100°C
Storage:	Cool and dry place
Shelf Stability:	16 months at temperature between +5°C and +28°C.

POLYMERIZED PRUDUCT PERFORMANCE

Reaction Speed:	10-15 minutes
Initial Unscrewing Torque ISO-10964:	25-35 N.m
Residual Unscrewing Torque ISO-10964:	20-30 N.m
Functional curing:	3-6 hours
Final curing:	12-24 hours
Operating temperature:	-50°C +150°C
Maximum diametrical clearance:	0,20 mm

Avvertenze. Le informazioni e i consigli riportati nella presente scheda corrispondono alle nostre più recenti conoscenze tecniche e applicative e sono supportate da continue ricerche di laboratorio. Tuttavia, prima di adoperare il prodotto, chi intenda farne uso è tenuto a stabilire se esso sia o meno adatto all'impiego previsto e, comunque, si assume ogni responsabilità che possa derivare dal suo utilizzo. Si precisa che le presenti informazioni possono essere soggette a integrazioni e/o variazioni nel tempo da parte di CAMP S.r.l. Fare sempre riferimento all'ultima versione della scheda tecnica, disponibile su richiesta o sul sito www.campitalia.it.

CAMP S.r.l.

Sede Legale: C.so Umberto I 103, 70010 Adelfia BA Italy
Uffici e Stabilimento di Produzione: Via G. Decaro, Zona PIP Lotto 18-19-20, 70016 Noicattaro BA Italy



tel/fax +39 080 4782768
web www.campitalia.it
e-mail info@campitalia.it

Given data relate to tests carried out at 22 ° C after 24 hours - tests performed on M10 zinc galvanized screws and 10 mm nuts.

Resistance to chemicals.

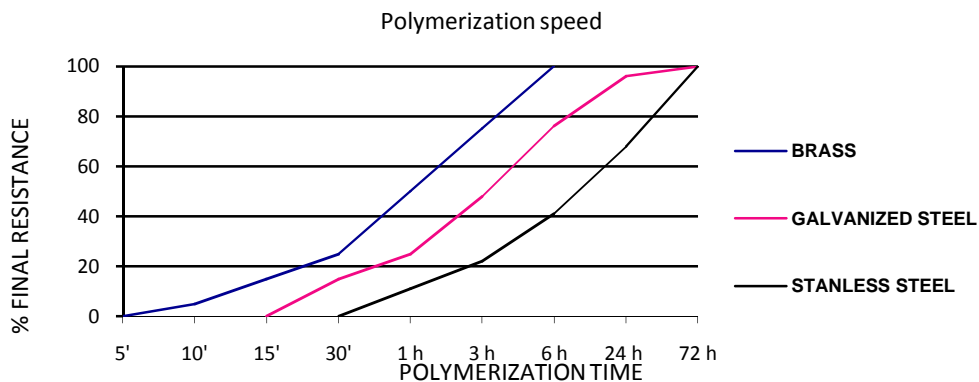
Test method DIN-54454.

Unscrewing Couple % evaluated after immersion.

	T °C	100 h	500 h	1000 h
Water / Glycol	85	100	90	90
Brake fluid	22	100	90	90
Engine oil	125	100	90	90
Acetone	22	100	90	90
Petrol	85	100	90	90
Trichloroethane	22	100	90	90

PLYMERIZATION DATA

The polymerization speed is influenced by the nature of the materials and the temperature at which the reaction occurs. The following graph shows the behavior of the product on some types of metal. Tests were carried out using M10 screws and evaluated according to ISO 10964. The environmental temperature affects the reaction rate. The ideal temperature of polymerization is between 20 ° C and 25 ° C. Temperatures between 5°C and 20°C inhibit the reaction, higher temperatures speed it up.



INSTRUCTIONS FOR USE

FRENAFILETTI 320 is not suitable for metal-plastic coupling, in oxygen circuits and for sealing systems with basic products or strong oxidizing acids. The product has to be used on cleaned and degreased metal threads. Apply the product on the first pitches of the male thread and on half pitch on the female. Securely tighten is crucial. A bland and superficial tighten can cause leaks over time. Do not open nor move joints after tightening. Before starting up the plant, it is recommended to wait 24 hours to allow complete polymerization of the sealant. When mounted in series, block the previous junction with a pipe wrench, in order to prevent the rupture of the film. Consult the Safety Datasheet before use.

STORAGE

Store the product in a cool dry place at a temperature not exceeding +28°C. To avoid contamination, do not refill containers with used product.

PACKAGING

Bottle 10 gr	Packaging: 12 pz	Code: 1105 010	Ean: 8056736862452
Bottle 50 gr	Packaging: 12 pz	Code: 1105 050	Ean: 8056736862421

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