

# FRENAFILETTI 330

High 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.

The **FRENAFILETTI 330** is an adhesive threadlocker, suitable for the threadlocking of nuts and bolts and other threaded parts, characterized by high mechanical strength. The product polymerizes spontaneously, when it is in the absence of air inside metal surfaces, with minimum backlash at least. **FRENAFILETTI 330** locks and seals threaded parts, by performing high resistance to removal. FRENAFILETTI 330 is highly resistant to water, oils, fuels, hydraulic and refrigerant fluids, gases and vapors. Prevents corrosion and seizure.

## APPLICATIONS

**FRENAFILETTI 330** 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. Particularly suitable for applications where mechanical loads are relevant, and high mechanical strength is needed. Perfectly replaces the use of conventional threadlocking systems, such as a nut, nut, washers etc.

## LIQUID PRODUCT FEATURES

Origin:	Anaerobic methacrylic resin
Color:	Green
Viscosity 25°C (Brookfield 20 rpm):	300- 500 mPa.s
Specific Weight (g/ml):	1,06
Flammability:	>100°C
Storage:	Cool and dry place
Shelf Stability:	16 months at temperature between +5°C and +28°C.

## POLYMERIZED PRUDCT PERFORMANCE

Reaction Speed:	10-15 minutes
Initial Unscrewing Torque ISO-10964:	45-55 N.m
Residual Unscrewing Torque ISO-10964:	40-50 N.m
Functional curing:	3-6 hours
Final curing:	12-24 hours
Operating temperature:	-50°C +150°C
Maximum diametrical clearance:	0,16 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](http://www.campitalia.it).

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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.

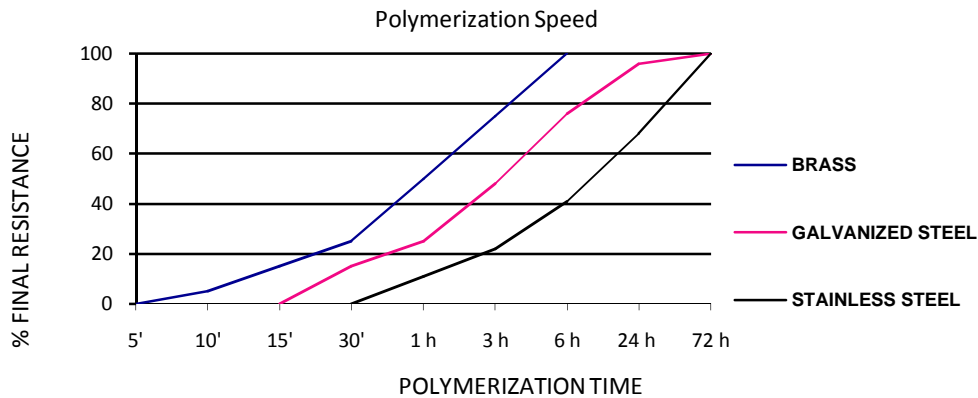
Test method DIN-54454.

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 330** 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: 1106 010

Ean: 8056736862469

Bottle 50 gr

Packaging: 12 pz

Code: 1106 050

Ean: 8056736862438

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