

MARYLAND METRICS

P.O.Box 261 Owings Mills, MD 21117 USA

(410)358-3130 (800)638-1830 Faxes: (410)358-3142 (800)872-9329

<http://mdmetric.com>

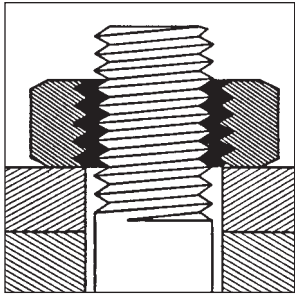
techinfo@mdmetric.com

TECHNICAL INFORMATION and DATA

We offer this only as a process applied to our fastener products, not as a separate item.

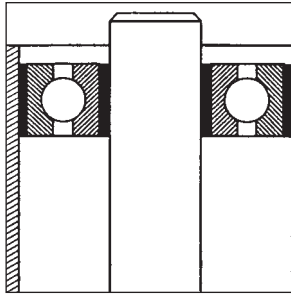
omniFIT® -anaerobic adhesives

omniFIT Diacrylate adhesives are solvent-free, single component anaerobic reactive adhesives. They polymerize when deprived of atmospheric oxygen and under the catalytic effect of metals to a high molecular, networked plastic with strength properties at differing levels.



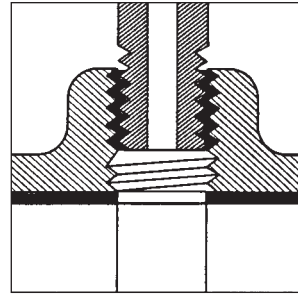
LOCKING
of Threads

Threaded connections of all kinds subjected to transverse and axial loads can be locked against vibration and shock. The locking medium adheres to the surfaces firmly and simultaneously seals the thread gap. It maintains on-torque, prevents loosening and protects against corrosion. As the surface contact is complete, loading is distributed over the whole engaged length, thus preventing material fatigue.



RETAINING
of mating Parts

omniFIT can be relied upon to retain mating parts, e.g. pulleys or couplings on shafts, anti-friction bearings or bushes in housings. A change can be made from fixed seating to slip seating with an extended tolerance range. Wedges, adjusting springs, pins and the like can be eliminated. It is suitable for strengthening of press and shrink fittings. It increases static friction by up to 3 times. It prevents fretting corrosion and any need for sealing of the joint space.



SEALING
of Surfaces

For sealing pipe joints and flanges, omniFIT has good resistance to chemicals and is thus suitable as a special sealant. In addition to reliable sealing it is vibration and shock resistant. Hence it is possible, for example, to have any desired angle for connecting pieces. Its high pressure resistance coupled with non-setting and non-flowing properties offer special advantages for sealing flanges and joint faces.

Packing and storage

- bottles of 50 g, 250 g, or 2000 g
- omniFIT seal in tubes of 200 g
- protect from sunlight and keep in dark and cool conditions
- At room temperature the shelf life is 1 year

Precautions

- rated as non toxic
- in our experience, and from a toxicological point of view, there are no problems of using omniFIT
- The characteristic odor makes ventilation advisable
- wash (with soapy water) skin that have been exposed to omniFIT

Processing

- Before omniFIT is applied, surfaces should be cleaned from grease and dust. omniCLEAN, or some other commercial cleaning agent, is suitable for this purpose.
- Where ever possible, omniFIT should be applied to both surfaces to be joined. In the case of threads up to M 16, it is sufficient to apply the adhesive to the bolt thread. However, where blind holes are concerned the bore must be wetted.
- Since the curing reaction starts immediately after the parts are put together (1-3 minutes), they should not be disturbed until initial bond strength is achieved.
- omniFIT products can be applied manually direct from the polyethylene bottles.