

Technical Data Sheet

Technology: Dimethacrylate ester

Product name : Anabond 115

Revised date: Feb 2015

Revision No.: 01

Product Description

Anabond 115 is a single component dimethacrylate ester based fast curing high strength anaerobic adhesive system specially designed for permanent locking and sealing of threaded fasteners. The product gets polymerized when confined between closely mating metal surfaces in the absence of air and prevents loosening and leakage from shock and vibration. The product exhibits good temperature performance, chemical resistance and lubricating property..

The product is suitable for applications on less active substrates such as plated surfaces, where disassembly with hand tools is required for servicing.

Chemical Type : Dimethacrylate ester

Appearance : Medium viscous liquid

Cure initiator : Anaerobic

Application : Thread Locking & Sealing

Strength : **High**Colour : **Green**

Properties of uncured material

Specific Gravity at 30 °C, ATM - R004 x (JIS K6820)	1.0 - 1.1
Viscosity at 30 °C, Brookfield DV-II+, Spindle 4, speed 100 rpm, cP, ATM - R006 x (ISO 2555)	1150 - 1350
Flash point	refer MSDS

Curing performance

The product cures when confined in the absence of air between closed fitting metal surfaces. The curing time is influenced by the gap between the surfaces, the kind of metal, surface treatments and temperature. The assembly can be subjected to limited test after functional cure. Although functional cure is developed in relatively short time, curing continues for at least 24 hours before full properties are developed. Curing tested according to ATM* - R031 (ISO 10964).

Handling cure at 30 ± 2 °C, minutes	
M10 steel bolts & Nuts	5 - 12
M10 chrome planted steel bolts & Nuts	10 - 25
Functional cure at 30 ± 2 °C, h	3
Full cure at 30 ± 2 °C, h	24

Operating Parameters

Recommended gap	mm	0.25
Service temperature	°C	-60 to + 200

Properties of cured material

Cured for 24 hours at 30 \pm 2 °C, tested according to ATM - R031 (ISO 10964)

Breakaway torque,	N.m	33 - 37
M10 steel bolts and nuts	(kgf.m)	(3.3 - 3.7)
Prevailing torque	N.m	34 - 40
M10 steel bolts and nuts	(kgf.m)	(3.0 - 4.0)

Chemical resistance

Aged under conditions indicated and tested at 30 ± 2 °C.

Chemicals	% of	initial stren	igth
Chemicals	100 h	500 h	1000 h
Motor oil 10W30,125 °C	100	99	99
Motor oil 20W40,125 °C	100	99	98
Gasoline, 25 °C	100	95	86
Water / Glycol, 50 / 50, 87 °C	96	84	80



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General information

Before handling read product safety data sheet and container label for safe use.

This product is not recommended for use in pure oxygen or oxygen rich systems and not be selected as a sealant for chlorine or other strong oxidizing materials.

To prevent the product from clogging in the nozzle, do not allow the tip to touch the metal surfaces during application.

Do not return the used product back to the original container as it may be contaminated during usage.

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check the compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure performance of the adhesive.

The product is not normally recommended for use on plastics, particularly thermoplastic materials where stress cracking of plastic could result. Users are recommended to check the compatibility of the product with such substrates.

Direction for use Substrate preparation

- · All surfaces must be clean and dry.
- For best results degrease the fasteners with suitable solvent and allow it to dry before applying the adhesive.
- If the metal surface is inactive or curing speed is slow use activator, Anabond Ekaprime 021.

Method of application

- Shake the product thoroughly before use.
- Apply required drops of the product on the mating area of the bolt and nut. Rotate the nut on the bolt for uniform coverage and then tighten as required. Parts should not be disturbed until sufficient handling strength is achieved.
- For through holes, apply several drops of the product on to the bolt at the nut engagement area.
- For blind holes, apply several drops of the product down the internal threads to the bottom of the hole.

Disassembly and cleaning

- · Remove with standard hand tools.
- When hand tools do not work, heat the assembly to approximately 250 °C and disassemble while hot.
- Cured product can be removed with a combination of soaking in a solvent and mechanical abrasion such as a wire brush.

Storage

- Store the material in its original container in a cool and dry condition between 8 and 35 °C. Keep away from heat source and direct sunlight.
- Storage other than recommended temperature and conditions will have impact on the properties of the product.
- The product is non-volatile and non-flammable at room temperature.

SKU	Packaging
50 ml , 250 ml 250 gm, 500 ml	HDPE containers

Shelf life

Fifteen months from the date of manufacture in it's original container, unopened and recommended storage conditions.

Unit Conversion

(°C x 1.8) + 32 = °F	N x 0.225 = lb
kgf.m x 9.81 = N.m	N.m x 8.851= lb.in
MPa x 145 = psi	N / mm x 5.71 = lb/in
mPa.s = cP	N.m x 0.738 = lb.ft
mm / 25.4 = inches	N.m x 0.142 = oz.in
μm / 25.4 = mil	



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Disclaimer - Please read carefully

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