

PRO LOCK QUICK BOND

ADHESIVES AND SEALANTS

- **No hardener necessary**
- **Solvent free**
- **Cures in the absence of air**
- **Very high locking force**
- **Activator can be used afterwards**

PRODUCT DESCRIPTION :

Pro Lock Quick Bond light green is suitable for securing bolts, nuts, sealing of pipes (among other things, water, steam, gas, compressed air, hydraulic oil,). Also this version can be used afterwards.

APPLICATIONS :

Pro Lock Quick Bond light green does not require any hardener, it is solvent free and does not harden in the presence of air. Pro remains liquid on the air exposed metal surfaces, so there is more time to merge the parts.

Airtight hardens pro lock strong pretty quickly in a strong protective film and is fully consistent with protection against corrosion and moisture intrusion. The compounds show a very high locking force, but can be disassembled with standard tools.

INSTRUCTIONS :

Clean the two pieces to be joined with the Ultra Degreaser. Use enough Pro Lock Strong on the surfaces. An immediate connection is not necessary because the material only reacts after connecting the parts. The Pro Lock Strong becomes hard in the absence of air. Anaerobic liquid synthetic materials do not react with metal -Plastic combinations, in that case you need to work with an activator.

Hand firmness is reached after 10 to 20 minutes. Final hardening is achieved after 24 hours. The hardening can be accelerated by an activator.



SPECIFICATIONS :

Chemical Type: Dimethacrylate
Colour: Light green
Specific Gravity: 1.07

Viscositeit¹ CPS

Range: 7-12
Average Value: 10

Breaking point ² n / m

Range: 7-21
Average: 34

Prevail Torque³ n / m

Range: 25-44
Average: 34

Initial fixture time⁴: <15 min
Full hardening: 24 hours
Flash point: > 100 ° C
Max. gap filling: 0:15 mm
Service life at 21 ° C: 12 months
Temperature range: -50 to +150 ° C

- ¹ Brookfield RVT spindle 3, 2.5rpm
² On m10 black oxide steel bolt and nut m10 bright steel, ISO10964
⁴ ISO10964

Heat resistance: Pro Lock Extra Strong is suitable for temperatures up to 150 ° C. At 130 ° C the bond strength ~ 50% of the strength at 21 ° C.

Hardening:

15 min	Finger Strength
1 hour	40%
24 hours	100%

Hardening Speed vs. Temperature:

All figures relating to speed are tested at 21 ° C. Lower temperatures will result in slower hardening. Heating the assembled parts speeds up the hardening process. Use an Activator when the temperature is below 5 ° C.

Hardening Speed vs. Substrate:

Hardening speed and strength are dependent on the substrates. When used on steel and brass components anaerobic adhesives will rapidly reach their full strength rather than on inert materials such as stainless steel and zinc. A pre-activator may be used in order to accelerate the hardening process. Anaerobic adhesives will harden only in the absence of air.

Hardening speed vs. Activator:

When the hardening takes too long or is impossible, an activator can be used before. As a result, the hardening rate is accelerated. The use of an activator may reduce the binding strength of up to 30%. First test on separate parts to measure the effect.

Hardening speed vs. Bonding Gap:

The size of the bonding gap has a major influence on the hardening time of anaerobic adhesives. The bigger the distance between the surfaces, the slower the hardening speed. Recommended maximum gap is 0.15 mm.