



High Performance Manufacturing Adhesives Technical Data Sheet Revision Number 001020

Product Protac® 2890 Threadlocker – Penetrating/Wicking Grade

Description Protac® 2890 is a fast curing, medium strength, penetrating/wicking

grade anaerobic threadlocker, for bonding and sealing threads, and retaining of cylindrical parts. It cures in the absence of air between close-fitting surfaces. It is highly resistant to heat, vibrations, water,

gases, oils, hydrocarbons and many chemicals.

Specification Meets Military specifications: MIL-S-46163A Type 111 Grade R,

MIL-S-22473E Letter Grade AA.

Applications Protac[®] 2890 is formulated to be a very low viscosity anaerobic

threadlocker used mainly to wick into pre-assembled parts. Used for post assembly applications. Due to its very low viscosity, it can be used for some interference fit retaining applications. It can be used also as a porosity sealant for cast components. Prevents corrosion and

leakage.

Physical Properties Chemical type Methacrylate Ester

Appearance Green
Specific Gravity 1.07
Viscosity cPs at 25°C 12

Brookfield RVT Spindle 3 @ 20 rpm

Gap fill 0.09mm Shelf Life 24 months

Curing Properties Handling Time <15 minutes

Functional Time 1 hours Full Cure Time 24 hours

Breakaway Torque, ISO 10964

M10 steel nuts and bolts 7-21 N/m

Prevail Torque, ISO 10964

M10 steel nuts and bolts 25-45 N/m
Temperature Range -50°C to 150°C

Cure speed Cure speed will vary according to the substrates. When used with

active surfaces such as mild steel and brass components anaerobic adhesives will reach full cure faster than more inert materials such as stainless steel. Protac $^{\text{\tiny ®}}$ AC3049 activator may be used to accelerate

cure speed.

Chemical / Solvent Resistance Protac® anaerobics exhibit excellent chemical resistance to most oils

and solvents including motor oil, leaded petrol, brake fluid, acetone,

ethanol, propanol and water. Anaerobic adhesives are not recommended for use in pure oxygen or chlorine lines.





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Bond gap Bond line width will greatly affect the speed of cure of anaerobic

adhesives. Bond line width varies with thread type and size of the fastener. The larger the gap between threads, the slower the cure

speed.

Temperature Cure speed is tested at 22°C. Lower temperatures will result in slower

cure. Higher temperatures will offer faster cure speeds. AC3049 activator should be used when the temperature is less than 5°C.

General Information Anaerobic adhesives only cure in the absence of air and with metal

part activation. Adhesive outside the joint will remain uncured and

may be wiped away with a cloth.

Anaerobic adhesives are not recommended for certain plastics as stress cracking can sometimes result. Some anti-corrosion chemicals

inhibit the cure system in this type of anaerobic. Trials are

recommended to establish whether cleaning of the parts is necessary.

Protac[®] AC3049 activator may be required on plated parts.

Directions for use Ensure parts are clean, dry and free from oil and grease. Apply

adhesive to all engaged threads. Assemble parts and allow to cure.

Wipe excess adhesive from outside of joint.

Storage Store in a cool area out of direct sunlight. Optimal storage conditions

are between 8° and 21°C.

Packaging Bottles: 50ml and 250ml. Available in bulk for use with dispensing

systems.

Health & Safety For safe handling of this product consult the Material Safety Data

Sheet.

Data rangesData contained in this data sheet may be reported as typical value

and/or range. Values are based on actual test data and are verified on

a regular basis.

Notes The information contained herein is produced in good faith and is

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property in the handling and use of any of our products.





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