Product **Protac® 5842 Hydraulic Sealant**

Description

Protac® 5842 is a single component, medium strength, anaerobic pipe sealant. It cures when confined in the absence of air between close-fitting metal surfaces.

Applications

Protac® 5842 is formulated to lock and seal fine to medium pipe threads, particularly for hydraulic and pneumatic pipe systems, up to 15mm pipe diameter. Protac® 5842 prevents vibration loosening and leakage through the pipe threads. It is formulated to give medium strength breakloose and prevailing torque on assembled joints, thus enabling easier disassembly and servicing. Pipe joints made with Protac® 5842 should be fully torqued up within a maximum of 10 minutes from initial assembly. It will give an almost instant low pressure seal (up to 2 bar after 20mins.) and when fully cured, will seal up to the bursting pressure of the pipe (e.g.10,000psi).

Physical Properties

Chemical type	Methacrylate Ester
Appearance	Brown
Specific Gravity	1.06
Viscosity cPs at 25°C Brookfield RVT Spindle 4 @ 25 rpm	500
Gap fill	0.2mm
Flash Point	>100°C
Shelf Life	12 months
Temperature Range	50°C to 150°C

Curing Properties

Handling Time	<15 minutes
Functional Time	1 hour
Full Cure Time	24 hours
Breakaway Torque, ISO 10964	
M10 steel nuts and bolts	8-18 N/m
Prevail Torque, ISO 10964	
M10 steel nuts and bolts	7-15 N/m

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® 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.

Novachem Corporation Ltd
Dublin, Ireland
Tel: 00353-1-802-6554
Email: sales@novachem.ie
Web: www.novachem.ie

Novachem Corporation UK
London, England
Tel: 0044 (0) 20 8144 2098
E-mail: sales@novachem-uk.co.uk
Web: www.novachem-uk.co.uk

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 ranges

Data 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

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Novachem Corporation Ltd
Dublin, Ireland
Tel: 00353-1-802-6554
Email: sales@novachem.ie
Web: www.novachem.ie

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London, England
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E-mail: sales@novachem-uk.co.uk
Web: www.novachem-uk.co.uk