



Protac 5842 Hydraulic Sealant

Product description Protac 5842 is a single component, medium strength, anaerobic pipe

sealant. 5842 cures when confined in the absence of air between

close-fitting metal surfaces.

Typical 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. 5842 is formulated to give medium strength breakloose and prevailing torque on assembled joints, thus enabling easier disassembly and servicing. Pipe joints made with 5842 should be fully torqued up within a maximum of 10 minutes from initial assembly. 5842 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).

Properties of material Chemical type Di-Methacrylate

Appearance Brown Specific Gravity 1.04 Viscosity cPs (Range)¹ 400-600 Typical value 500 Breakaway Torque (N.m)³ 8-18 Typical range 13 Prevail Torque (N.m)² 7-14 Typical value 10 Fixture Time³ <15 Full Cure @ 20°C(hours) 24 Flash Point (°C) >100 Shelf Life @ 20°C (months) 12 Max Gap Fill (mm) 0.20 Operating temp. Range (°C) -50 to +150

1 Brookfield RVT, spindle 2, 2.5rpm

2 On M10 black oxide steel bolt and M10 bright steel nut, ISO10964

3 ISO 10964

Typical curing speed, % of final strength:-

15 mins Finger tight 1 hour~ 50% strength 24 hours 100% strength

Cure speed vs. substrate

Cure speed and strength vary according to the substrates. When used on mild steel and brass components anaerobic adhesives will reach full cure faster than more inert materials such as stainless steel and zinc dichromate. Protac AC32 activator may be used to accelerate cure speed.

TECHNICAL DATA SHEET Revision number: 50211



Protac 5842

Cure speed vs. bond gap

The size of the bond gap greatly affects the speed of cure of anaerobic

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

Maximum recommended gap for 5842 is 0.20mm.

Cure speed vs. temperature All figures relating to cure speed are tested at 22°C. Lower

temperatures will result in slower cure. Heating the assembled parts accelerates the curing process. Activator AC32 should be used when

the temperature is less than 5°C.

Typical environmental resistance

Hot strength Protac 5842 is suitable for use at temperatures up to 150°C. At 130°C

the bond strength will be $\sim 30\%$ of the strength at 21°C.

Heat ageing Protac 5842 retains ~85% full strength when heated to 100°C for 90

days then cooled and tested at 22°C.

Chemical / Solvent Resistance Protac anaerobic adhesives 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.

Chemical	Temp.	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22 C	80	80
Ethanol	22 C	100	95
Motor Oil	125 C	100	100
Petrol	22 C	100	95
Brake Fluid	22 C	100	95
Water/Glycol	87 C	90	90

General information For safe handling of this product consult the Material Safety Data

Sheet.

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.

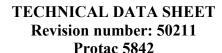
5842 is suitable for most fine and medium-threaded screws, nuts and bolts. Not recommended on certain plastics as stress cracking can sometimes result. Some anti-corrosion chemicals inhibit the cure system in this type of anaerobic. Trials are recommended to establish whether cleaning of the parts is necessary. AC32 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. Refrigeration to 5°C gives

optimum storage stability.

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

systems.

Data rangesThe 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.

NotesThe information contained herein is produced in good faith and is

believed to be reliable but is for guidance only. Novachem Ltd. and its agents cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in our literature and furthermore the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling

and use of any of our products.