



Protac 5872 Pipe Sealant with Teflon

Product description

Protac 5872 is a single component, low strength, anaerobic pipe sealant. 5872 is a very high viscosity, thixotropic pipe sealing paste possessing high lubricity. 5872 cures when confined in the absence of air between close-fitting metal surfaces.

Specification

DVGW certified.

Typical applications

Protac 5872 is formulated to lock and seal medium to coarse straight and tapered pipe threads on pipes of diameter from 15mm to 80mm. 5872 prevents vibration loosening and leakage through the pipe threads. Protac 5872 gives low strength break and prevail torque on assembled joints, thus enabling easier disassembly and servicing, which is further helped by the lubricity of 5872.

Protac 5872 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 White paste
Specific Gravity 1.17
Viscosity cPs(Range)¹ 150.000 – 450,000
Typical value 300,000
Viscosity cPs (Range)² 30,000 – 130,000
Typical value 80,000

Breakloose Torque (N.m)³ 2-8 Typical value 3.5 Prevailing Torque (N.m)³ 0.5 - 4Typical value 1.5 Fixture Time⁴ ≤15 Full Cure @ 20°C (hours) 24 Flash Point (°C) >100 Shelf Life @ 20°C (months) 12 Max Gap Fill (mm) 0.50 Operating Temp Range (°C) -50 to +150

1 Brookfield RVT, spindle D, 2.5rpm 2 Brookfield RVT, spindle D, 20rpm

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

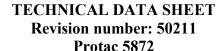
4 ISO 10964

Typical curing speed, % of final strength:-

15 mins Finger tight 6 hour~ 35% 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.

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 5872 is 0.50mm

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 5872 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 5872 retains ~85% full strength when heated to 100°C for 90

days then cooled and tested at 22°C.

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.

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.

Protac 5872 is not recommended for use 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.

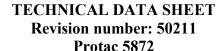
Wipe excess adhesive from outside of joint.

Storage Store in a cool area out of direct sunlight. Refrigeration to 5°C gives

optimum storage stability.

Packaging Tubes: 10ml, 50ml and 250ml. Available in bulk for use with

dispensing systems.





Data ranges

The 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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