



# Protac<sup>®</sup> Anaerobic Adhesives



*High performance anaerobic threadlocking, retaining, sealing, gasketing adhesives and sealants.*



**High performance manufacturing adhesives**

**Threadlocking:** Protac® threadlocking products are one-component products which require neither dosing nor mixing. The viscosity and strength of the products cover the normal range of standard fasteners. Protac threadlocking grades have been formulated to take into account the dimensions of the various fasteners. Breakloose torque varies according to the product grade. Normal service temperatures are between -55°C and +150°C. High temperature products are also available as standard.

**Retaining:** Protac® retaining products are one-component products which are available in different viscosities. Their strength after polymerisation varies according to the grade but can be extremely high and comparable to brazed or welded assemblies. Protac® retaining products also have significant resistance to shear and compression. The Protac® retaining range covers a wide variety of applications and are used for all conventional assembly methods including shafts, keys, grooves, pins, splines, etc.

**Gasketing:** Protac® gasketing compounds are available in a range of different viscosities, speed of polymerisation and resistance to shock, with excellent adhesion to materials normally used in mechanical assemblies. It is therefore possible to have ease of disassembly, while ensuring mechanical integrity against vibration and deformation of the joint. The replacement of cut gaskets by anaerobic sealants provides ease of use and allows for the reduction in stocks of pre-cut gaskets, as well as a higher standard of assembly, eliminating metal-to-metal contact where there is no pre-cut gasket as well as adapting perfectly to the mating surfaces.

**Sealing:** The outstanding properties of the Protac® sealing products allow them to replace other sealing methods in a number of applications such as, pneumatic and hydraulic systems, liquid transport lines, water circulation systems, valves, heating, irrigation and fire prevention systems, gas lines, chemical and food transport lines.

The following property tables outline the front line grades with specification details. For a complete list of anaerobic adhesives please contact our sales department.

Protac® Threadlockers				
Protac®	Applications	Viscosity cps	Fixture Time mins	MIL Specification
2822	Low strength threadlocker designed to lock nuts and screws. Prevents vibration loosening and leakage through the threads.	1000	20	S-46163A Type II Grade M
2842	Medium strength, fast cure threadlocker designed to lock all nuts and bolts. Prevents vibration loosening and leakage through threads.	1200	10	S-46163A Type II Grade N S-22473 E Grade CVV
2843	Medium-high strength general purpose threadlocker designed to lock nuts and bolts. Prevents vibration loosening and leakage through the threads. Can be un-done with hand tools.	2250	10-12	S-46163A Type II Grade N S-22473 E Grade CVV
2862	High strength threadlocker designed to lock nuts and bolts. Used for mounting bolts, housing screws, etc.	2400	20	S-46163A Type II Grade O
2870	High strength permanent threadlocker. Used for applications where maximum strength is needed, e.g., larger threaded fasteners and studs. Excellent resistant properties.	600-800	10	S-46163A Type I Grade K S-22473 E Grade CVV
2871	High strength, fast cure, permanent threadlocker, highly resistant to heat, vibrations, water, gases, oils, hydrocarbons, and many chemicals.	500	10	S-46163A Type I Grade K S-22473 E Grade CVV
2875	High strength, permanent threadlocker designed to lock metal fasteners and prevent vibration loosening and leakage. Suitable for larger threaded fasteners and studs.	7000	30	-
2877	High strength, fast cure, permanent threadlocker, highly resistant to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Ideal for larger threaded fasteners and studs.	7000	30	S-46163A Type I Grade L
2890	Medium-high strength, fast curing, penetrating/wicking threadlocker, used mainly to wick into pre-assembled parts. Ideal as a porosity sealant for cast components.	12	20	S-46163A Type III Grade R S-22473 E Grade AA



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## Protac® Sealants

Protac®	Applications	Viscosity cps	Fixture Time mins
5842	Hydraulic sealant which will lock and seal threads. Suited for hydraulic and pneumatic pipe systems up to 15mm in pipe diameter. Prevents vibration loosening and leakage.	525-1850	10-30
5865	Low strength pipe sealant. Water and Gas certified. Locks and seals medium to course straight and tapered pipe threads on pipes of diameter 15mm to 80mm.	300,000	10-30
5867	Low strength pipe sealant. Locks and seals medium to course straight and tapered pipe threads on pipes of diameter 15mm to 80mm. Ideal for stainless steel fittings.	540,000	10-30
5872	Low strength pipe sealant with Teflon. Locks and seals medium to course straight and tapered pipe threads on pipes of diameter 15mm to 80mm.	17,000-50,000	45-60
5877	Medium strength pipe sealant which will lock and seal medium to course straight and tapered pipe threads on pipes of diameter 15mm to 80mm.	24,000-80,000	10-30

## Protac® Retainers

Protac®	Applications	Viscosity cps	Cure Speed mins	MIL Specification
6801	High strength retainer for bonding cylindrical parts, including mounting gears and rotors unto shafts. Augments the strength of press fit and slip fit assemblies.	100-150	30	-
6809	Medium strength, high temperature retainer, suitable for continuous working temperatures up to 150°C. Excellent for use on close fitting parts, rotors on shafts, bushes, pulleys and gears.	125	10	R-46082B Type I
6838	High strength retainer for bonding cylindrical parts, including impregnating bushings into housings. Augments the strength of press fit and slip fit assemblies.	2500	5	-
6848	High strength retainer for bonding cylindrical parts, including mounting gears and rotors unto shafts. Ideal for continuous working temperatures up to 150°C. Augments the strength of press fit and slip fit assemblies.	500	5	-
6880	High strength retainer for cylindrical joints. Fast curing, develops fast high strength which will withstand higher service temperatures than standard products.	1200	10	-

## Protac® Gasketing Compounds

Protac®	Applications	Viscosity cps	Cure Speed min
5815	Flexible form-in-place medium strength flange sealant for use on rigid metal flanges and surfaces - pump and transmission housings, compressors, thermostats, etc.	275,000-950,000	15-120
5818	Flexible form-in-place medium strength flange sealant for use on rigid metal flanges and surfaces - gearbox casings, machinery covers, pump housings, etc.	800,000-3,750,000	30-1440
5874	Low-medium strength form-in-place sealant for multi-purpose applications on rigid metal flanges and surfaces - gearbox casings, machinery covers, pump housings, compressor end caps, etc.	30,000-100,000	15-720



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# NovaChem

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on proven chemistries.*



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