



Powerlock

Very high-strength retaining compound and threadlocker, with excellent gap-filling properties.



Features & Benefits

- Green very high-strength retaining compound - designed for retention of parts with a clearance or interference fit
- Excellent gap-filling properties - up to 0.25 mm
- High temperature resistance - up to +180° C
- Increased oil tolerance - locks assemblies even when not completely clean
- Primerless on active and passive metals - saves time in the maintenance and repair operation
- High chemical resistance to most industrial liquids
- Non-hazardous - safe for the user and the environment
- NSF P1 registered - for use in food-processing environment

P/N	Product	S/C	Packaging
86541	Powerlock	PWK	50 ml concertina bottle
86545	Anaerobic Activator	ANAC	200 ml aerosol

Application

Powerlock is designed for the retention of parts with a clearance or interference fit and shows excellent performance for dynamic, axial and radial loads. Powerlock is ideal for repairing badly worn shafts on shaft mounted assemblies or for repairing badly worn housings around components such as bearings and metallic seals. Powerlock fills gaps up to 0.25 mm in fitting metal parts - active metals such as brass and copper, and passive metals such as stainless steel, aluminium and plated surfaces. The curing speed varies depending on the surface. For increasing the curing speed, use KENT Anaerobic Activator. Powerlock can be applied on surfaces presenting traces of cutting oils, lubricants and protection liquids. It is not recommended to use Powerlock for the permanent locking of copper assemblies when in contact with water above 40° C.

Instructions

1. Clean both parts to be assembled with KENT Soft Surface Cleaner.
2. If required, apply KENT Anaerobic Activator on both parts and allow 30 to 60 seconds to dry.
3. Apply Powerlock on both parts.
4. Assemble as required. Don't move parts after assembling.
5. Functional strength is achieved in 3 to 6 hours depending on the nature of the surface and the size of the thread. Allow 24 hours curing time in order to achieve full strength.



Technical Information

Base:	Methacrylate anaerobic resin
Consistency:	Liquid
Colour:	Green (fluorescent)
Shelf life:	12 months (23° C)
Custom tariff code:	3506 99 00
VOC:	0 g/l

Cure mechanism:	Anaerobic
Viscosity (Brookfield):	400 - 900 mPa.s
Specific gravity:	1,07 - 1,11 g/ml
Maximum thread:	M20
Gap fill:	Maximum 0.25 mm
Handling strength achieved:	25 - 35 minutes *
Functional strength achieved:	3 - 6 hours *
Full strength achieved:	12 - 24 hours *
Breakaway torque:	40 - 50 Nm *
Prevailing torque:	30 - 45 Nm *
Temp resistance :	-55° C to +180° C
Certification:	NSF P1 (155140)

* Measured on M10 x 20 - quality 8.8 zinc nut - and bolt 0.8D (without initial load)

Chemical Resistance

Sulphuric acid 24% (battery acid):	Very good
Hydrochloric acid 37%:	Very good
Ketones:	Very good
Diesel:	Very good
Petrol:	Very good
Alcohol:	Very good
Glycols:	Very good
Water:	Very good
Salt water:	Very good
Brake fluids:	Very good
Motor Oils:	Very good

For the complete list, please take contact with your KENT technical advisor. Information provided here is for reference only. The bonds tested were under laboratory conditions. Adhesive performance depends upon the specific chemicals tested, substrates bonded, surface preparation and environmental conditions in processing.



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