TECHNICAL DATA SHEET

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3MG.015
Thread Lockers Resbond™

COTRONICS CORP
High Temperature Specialty Materials Since 1971

Summary

Overview

Final Advanced Materials and its partner, Cotronics, offer a range of gelified thread lockers. The products are one-component and are easy and fast to use with no risk of dripping.

Implementation

- Apply and leave to cure at room temperature
- Accelerated curing at 80 °C maximum

Packaging

- Package in a 120 g applicator bottle
- Waste free
- One bottle can contain more than 2,000 applications

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Characteristics

- Operating temperature: up to 1,100 °C
- Stable from -180 °C to 1,100 °C
- One-component
- Very easy to use
- No organic binders
- Mildly hydroscopic liquid product
- Instant adhesion
- High bond strength
- Electrically insulating
- Resistance to corrosion
- Economical

Applications

General applications:

- Use in heating plants, tanks, heat exchangers, chemical reactors, and more
- Adhesion on metal, glass and ceramics
- For securing nails, rivers, nuts, pipes, threads, etc.
- Sealing pipe assemblies
- Reduces and absorbs vibrations.

Specific applications:

- **907TS Green:** Small screws, tight fits, very low clearance, instrumentation
- **907TS Blue:** Medium screws, bolts, pipe threading
- **907TS Red:** Large screws, piping, dowels, bearings
- **907TS Gold:** Difficult applications, flanges, nuts, piping, bolts
- **507TS Frost:** Epoxy/Teflon bicomponent, limited to 260 °C

Thread Lockers Resbond™

Tables

Property	Unit	Green	Blue	Red	Gold
Description		Fine Opening	General Purposes	Prevents Vibration Loosening	Large Opening
Components		1	1	1	1
Max. Operating Temperature	**°C**	1,100	1,100	1,100	1,100
Viscosity	**cps**	2,000	4,000	3,000	12,000
Shear Strength[1]	**Mpa**	2.55	2.76	3.1	3.45
Breaking Torque[1]	**N.m**	27	30	31	24
Gap Fill	**mm**	0.076	0.127	0.254	0.762
Cure at Room Temperature		Depends on the thickness[2]			
Fast Cure		Max 80 °C Depends on the thickness[2]			

[1]Stainless steel hexagonal bolt - reaction time 4 hours at room temperature + 2 hours at 120 °C
[2]See product's label.

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.