

AIR BRAKE/ PIPE SEALANT

Product Code: D506

Curing Properties

Breakaway Torque	15 - 30 minutes
Functional Cure Time	3 - 6 hours
Temperature Range	24 hours
Max Gap Fill	0.30mm



Key Benefits

- ✓ Leak Proof Pipe Thread Sealing
- ✓ PTFE Enhanced Lubrication
- ✓ Anti-galling protection
- ✓ High Chemical Resistance

Product Overview

Delta 506 is a high-performance anaerobic pipe thread sealant with PTFE designed for locking and sealing metal threaded pipes and fittings in industrial and automotive systems. The sealant cures rapidly in the absence of air between close-fitting metal surfaces to create a strong, leak-proof seal that resists vibration, pressure, and temperature extremes.

Uncured Adhesive Properties

COMPOSITION

Methacrylic Resin

COLOUR

White

VISCOSITY

30.000/60.000 mPa.s

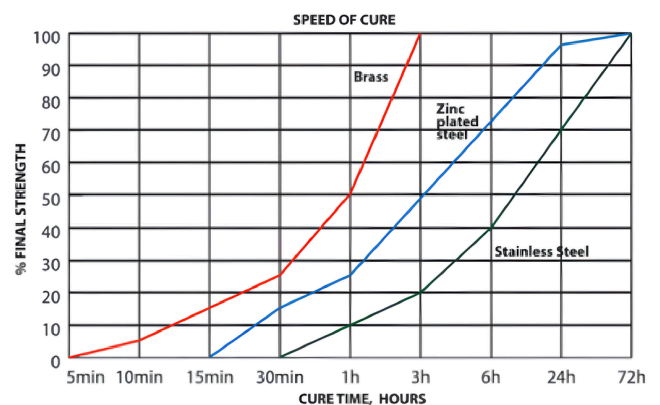
SPECIFIC GRAVITY

1.07

FLASH POINT

> 100°C

Curing Properties



The speed of cure will depend on two main factors, the type of materials and the ambient temperature. The graph below shows the strength developed with time on different kinds of metal. The different materials have been tested according to ISO 10964\

Applications



- ✓ Industrial Fluids
- ✓ Air Brake Systems
- ✓ Water Pipes
- ✓ Oil Fuel

Chemical Resistance

CHEMICAL	100 HOURS	500 HOURS	1000 HOURS
Aceton	100%	90%	90%
Ethanol	100%	100%	90%
Motor Oil (125°C)	95%	90%	90%
Gasoline	100%	95%	90%
Break Fluid	95%	90%	85%
Water/Glycol (85°C)	95%	90%	85%

Instructions of Use

- 1. Prepare surfaces** - Ensure all parts are clean, dry, and free from oil, grease, or other contaminants before application
- 2. Apply adhesive:** Apply a 360° bead to the leading threads of the male fitting (leave the first thread free). Work the sealant into the threads and apply a 360° bead to the female threads
- 2. Assemble components** - Join the fittings and tighten as required to achieve a secure, leak-proof seal.

Storage

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 5 °C and 25 °C. Please do not return any unused material in its original container.

Health & Safety

- Classification: Xi irritant
- Keep out of reach of children
- Keep away from face and eyes

LEGAL NOTE

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Delta Adhesives Limited accepts no liability arising out of the use of this information or the products described herein.