



# DELTA 506 Air Brake/Pipe Sealant with PTFE

## PRODUCT DESCRIPTION

Delta 506 is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. The product cures spontaneously and rapidly when confined in absence of air between close metal surfaces with a small gap fill.

Delta 506 is packed in a unique 'concertina' pack for ease of application. The thixotropic nature of the product coupled with a relatively fast cure give excellent characteristics for production of 'in situ' seals.

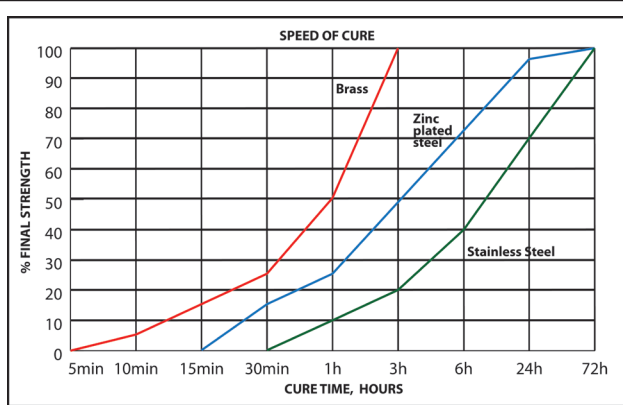
## APPLICATIONS

Recommended for industrial and automotive applications where a seal is required for threaded components. Can be used on air brake systems, water pipes, oil fuel and most commonly encountered industrial fluids. The cured product gives resistance to pressure, vibration, shock and extremes of temperature.

| UNCURED ADHESIVE PROPERTIES |                     |
|-----------------------------|---------------------|
| Nature                      | Methacrylic resin   |
| Appearance                  | 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



The speed of cure will depend on ambient temperature, low temperatures will slow the cure times and higher temperatures will speed the cure.

The following data refers to tests carried out at 22°C, after 24 hours.

|                             |                 |
|-----------------------------|-----------------|
| Breakaway Torque, ISO 10964 | 20/28 N.m       |
| Prevail Torque, ISO 10964   | 10/15 N.m       |
| Temperature Range           | -50°C to +150°C |
| Max Gap Fill                | 0.30mm          |

**ANAEROBIC ADHESIVES**  
**Gasket & Sealing Series**



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**CHEMICAL RESISTANCE**

| Chemical  | Temp  | % Initial Strength Retained |           |            |
|---|-------|-----------------------------|-----------|------------|
|   |       | 100 hours                   | 500 hours | 1000 hours |
| Test method DIN-54454, Breakaway torque % after immersion |       |                             |           |            |
| Water/Glycol  | 85°C  | 95                          | 90        | 85         |
| Brake Fluid   | 22°C  | 95                          | 90        | 85         |
| Motor Oil   | 125°C | 95                          | 90        | 90         |
| Acetone   | 22°C  | 100                         | 90        | 90         |
| Gasoline  | 22°C  | 100                         | 95        | 90         |
| Trichloroethane   | 22°C  | 100                         | 100       | 90         |

**APPLICATION METHOD**

Surfaces should be dry, clean and free of any contamination. Apply 360° bead of the product to the leading threads of the male fitting, leave the first thread free. Force the material into the threads and voids, adjust product amount accordingly and apply 360° bead of product on the female threads also. Assemble and tighten as required.

**STORAGE**

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

**HEALTH & SAFETY**

- Classification: Xi irritant
- Keep out of reach of children
- Refer to product Material Safety Data Sheet (MSDS).

**LEGAL NOTICE**

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 product described herein.

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