

# Pipe Sealant with P.T.F.E - 301285

## Technical Data Sheet

### DESCRIPTION

Pipe sealant with P.T.F.E is a high viscosity thixotropic gel paste which cures rapidly, sealing instantly to 10 bar through its Anaerobic cure system in contact with Metals and the absence of air (oxygen).

When fully cured it resists pressure up to 350 bar.

The Pipe sealant also has WRAS approval, and BSEN 751-1 approval.

### APPLICATIONS

Typical applications are in sealing all types of threaded connections against water, oil, gases and most common materials conveyed by pipes. Pipe sealant is not recommended for oxygen rich systems under pressure.

### USEFUL HINTS/NOTES

Where cure speed is extended due to low temperatures or inactive surfaces, activator can be used. Best results are found if Pipe sealant is applied to 2<sup>nd</sup> or 3<sup>rd</sup> threadform. Excess can be wiped away - any migration into lines will not solidify and can be flushed away during commissioning.

### PROPERTIES

Pipe sealant exhibits excellent results with stainless steel, brass and copper and can resist the effects of expansion and contraction without leakage.

Fast Cure to fixture: <15 minutes @ 20°C on steel

Temperature Range: -50°C to + 150°C

Typical Breakloose: 12N.m. (ISO method 4)

Typical Strength: 6 N /mm<sup>2</sup> prevailing (ISO method 4)

Recommended Thread sizes: 6mm up to 75mm (coarse)

Increase of gap size or fit extends the cure time.

### DIRECTIONS FOR USE

- Parts should be clean, dry and dust free.
- Degreased parts will assist results.
- Apply sufficient product to fill joint.
- Assemble parts in traditional manner.
- To achieve handling strength allow product to cure (approximately 15-30 minutes).
- Store in cool conditions.
- Keep out of direct sunlight.

### COMPATIBLE ACTIVATORS

An Anaerobic Activator can be used, however, up to 30% strength loss can occur when using accelerators.

### TECHNICAL FEATURES

#### **Physical Properties (liquid product)**

Chemical base:..... Methacrylate Ester  
Colour: ..... Yellow / Fluorescent  
Viscosity: 60000-85000mPas  
(25°C Brookfield DVII Spindle 6 @ 10rpm)  
Specific Gravity: ..... 1.05 @ 20°C  
Max.thread diameter:..... 3 inches  
Max. gap filling:..... 0.50mm  
Flash point:..... >100°C

#### **Physical Properties (cured product) @ 23°C**

(Measured on M10 x 20 bolt – grade 8.8 zinc galvanised  
– nut 0.8d loose free running (1) (2) (3))

Initial strength after: ..... 15 – 30 minutes  
Functional strength after: 1 – 3 hours  
Final strength ..... 3 – 6 hours  
Loose-break torque ..... 15-20N.m (M10) \*DIN54454  
Prevailing torque:..... 10-15N.m (M10) \*DIN54454  
Shear Strength: ..... 6-13 N/mm<sup>2</sup> DIN54452  
Thermal range:..... -55°C up to +150°C

DIN is 5N.m on torque increasing results over ISO method.

### STORAGE

Shelf Life:12 months @ 20°C

### HEALTH & SAFETY IN USE

Please refer to MSDS

IRRITANT: R43 - R36/37/38 - S23 - S24/25 - S37/39 - S51

Contains Methacrylate Esters

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PAGE 2 OF 2