



Pipe Seal with P.T.F.E

Technical Data Sheet

DESCRIPTION

Pipe Seal 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.

APPLICATIONS

Typical applications are in sealing all types of threaded connections against water, oil, gases and most common materials conveyed by pipes. Pipe seal 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 seal is applied to 2nd or 3rd threadform. Excess can be wiped away - any migration into lines will not solidify and can be flushed away during commissioning.

PROPERTIES

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

Fixture time: 15-30 minutes @ 20°C on steel

Temperature Range: -50°C to + 150°C

Typical Breakloose: 12 N.m. (ISO 10964)

Typical Strength: 6 N.m prevailing (ISO 10964)

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.



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TECHNICAL FEATURES

Physical Properties (liquid product)

Chemical base:..... Methacrylate Ester
Colour: Yellow / Fluorescent
Viscosity: 50,000-100,000 mPas
(25°C Brookfield RVT Spindle 6 @2.5rpm)
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 15-20 N.m (M10) ISO 10964
Prevailing torque:..... 10-15 N.m (M10) ISO 10964
Thermal range:..... -55°C up to +150°C

STORAGE

Shelf Life:12 months @ 20°C

HEALTH & SAFETY IN USE

Please refer to MSDS