

TECHNICAL DATA SHEET

ORAPI 205-PIPE SEAL

Universal Anaerobic Pipe Sealant with Teflon™

Description

Orapi 205-Pipe Seal is a single component thixotropic anaerobic threadlocking resin which cures to a tough, solid thermoset plastic when in contact with metal in the absence of air, excess product at the bond line will disperse into the system without the risk of blockage. The product is recommended for the locking and sealing of ferrous and non-ferrous coarse threaded pipe connections. The product is more versatile than traditional tapes and hems, while providing instant low pressure start up of sealed threads when tightened to specification. The addition of **Teflon™** aids in tightening and sealing components more easily together with assisting during dismantling. **Orapi 205-Pipe Seal** provides a strong but flexible semi-permanent seal.

Outstanding Features

- Gives an instant low pressure seal allowing systems to be started up without delay
- Resists loosening by shock loading and vibration
- Gives a fast and reliable cure on most metallic surfaces
- Seals and prevents “fretting” corrosion on threaded connections
- Anaerobic - excess product outside the bond line will not cure
- Thixotropic - prevents migration of uncured product during application
- Good gap filling ability - suitable for use on medium and large fittings
- Easy disassembly of bonded components when necessary
- Good resistance to solvents, oils and most industrial fluids

Applications

- Sprinkler systems
- Gas / Water pipework
- Pneumatic installations

TECHNICAL DATA

ORAPI 205-PIPE SEAL

Universal Anaerobic Pipe Sealant with Teflon™

Directions for use

Ensure that surfaces to be bonded are clean and free from grease, dirt, dust and any other contamination. To ensure best cleaning results use **Orapi 503-Kleaner**. Unscrew cap and cut off the top of the nozzle using a sharp knife or similar implement taking care to point the blade away from the body at all times. Apply **Orapi 205-Pipe Seal** to the connection in sufficient quantity to fill all engaged threads. Assemble the threaded components and tighten as required. Allow the bond to fully cure before putting equipment into service.

For reduced cure time or use with “inactive” metals / plastics.

Cure time(s) of anaerobic resins can be reduced by when the product is used in conjunction with **Orapi Anaerobic Activator**. When components manufactured from “inactive” metals and some plastics are encountered use of an **Orapi Anaerobic Activator** will primarily increase the effectiveness of the adhesive / sealant while also reducing cure times.

To reduce cure time

Apply the selected activator to one surface and allow to dry. Apply resin to the other surface and assemble components, tighten as required.

Use with “inactive” metals / plastics (i.e. stainless steel)

Apply the selected activator (**Orapi 3140 / 3141**) to both surfaces and allow to dry. Apply resin in the normal manner and assemble components, tighten as required.

Typical Characteristics

Appearance	:	White thixotropic paste
Base	:	di-Methacrylate resin
Viscosity ((@ 20 ⁰ C)	:	25000 - 55000 cPs
SG (kg / ltr)	:	1.1

Cure speed

Handling*	:	10 to 25 mins
Operating pres:	:	4 hours
Full cure	:	24 hours
Gap filling capability :	:	Upto 0.4mm
Temperature range :	:	-55 ⁰ C to +150 ⁰ C

Bond Characteristics

Breakloose Torque*	:	5 - 15 N/m ²
Pressure resistance :	:	70 N/mm ² (10 000psi)

*Tested on M10 mild steel nut and bolt.

Health & Safety

Further Technical Data and Health & Safety (COSHH, MSDS) is available from the Technical Department Orapi Applied Limited, Spring Road, Smethwick, West Midlands, B66 1PT, England.

Telephone +44 (0) 121 525 4000

Fax +44 (0) 121 525 4919

The information contained in this bulletin is based on our experience and reports from customers.

Where stated the figures listed are typical of normal production only.

There are many factors outside our control, which can affect the products performance for which reason the information supplied is given without responsibility.