



DELTA 333

Pipe Sealant with PTFE

TECHNICAL DATA SHEET
EDITION: 19/08/08
PRODUCT CODE: D333

PRODUCT DESCRIPTION

Delta 333 is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. The high lubricating properties of this compound prevents galling on stainless steel, aluminium and all other metal pipe threads and fittings.

APPLICATIONS

- Recommended for industrial applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textiles, utilities/power generation, marine, automotive, industrial equipment, gas compression and distribution industries.
- Widely used for industrial plant fluid power systems.

ADHESIVE PROPERTIES

Composition	Methacrylate Ester
Colour	WHITE
Viscosity Brookfield RVT Spindle 3 @20 rpm	540,250 cps at 25°C
Specific Gravity	1.14
Flash Point	> 100°C
Solvent Content	None

CURING PROPERTIES

Handling Cure Time	10 - 30 minutes
Functional Cure Time	2 - 4 hours
Full Cure Time	24 hours
Breakaway Torque, ISO 10964: M10 steel nuts and bolts N·m	1.70 N·m 15 lb.in.
Prevail Torque, ISO 10964: M10 steel nuts and bolts	1 N·m 9 lb.in.
Compressive Shear Strength, ISO 10123: Steel pins and collars	>1 N/mm ² >147 psi
Temperature Range	-55°C to 200°C

PHYSICAL PROPERTIES	
Coefficient of Thermal Expansion ASTM D 696, K-1	80 x 10 ⁻⁶
Coefficient of Thermal Conductivity ASTM C 177, W/(m-K)	0.10
Specific Heat, kJ/(kg-K)	0.30

CHEMICAL RESISTANCE			
Chemical	Temp	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22°C	70	60
Ethanol	22°C	90	90
Motor Oil	125°C	100	100
Gasoline	22°C	80	80
Brake Fluid	22°C	100	95
Water/Glycol	87°C	75	75

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 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.