



Technical Data Sheet

Bondloc B577 Pipe Seal

PRODUCT DESCRIPTION

B577 Pipe seal is a high viscosity thixotropic gel paste which cures rapidly, sealing instantly to 10 bar through its anaerobic cure. When fully cured it resists pressure up to 350 bar. B577 is not suitable for oxygen systems. Good chemical/solvent resistance to Ethanol, Motor Oil, Unleaded Petrol, Acetone and Brake Fluid.

APPLICATIONS

Typical applications are in sealing of all types of threaded connections against water, oil, gases and most common materials conveyed by pipes.

USEFUL NOTES

When cure speed is extended due to low temperatures or inactive surfaces, activator can be used. Best results are found if B577 is applied to 2nd and 3rd threadform. excess can be wiped away, any migration into lines will not solidify and can be flushed away during commissioning.

INSTRUCTIONS FOR USE

For best results, clean all surfaces with Bondloc B7063 and allow to dry.

For inactive metals or slow cure speeds, apply with Bondloc B7649 and allow to dry.

Apply a 360° bead of product to the leading threads of the male fitting, ensure the material is forced into the threads to thoroughly fill the voids.

For larger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.

Tightened fittings will instantly seal against moderate pressures. For maximum pressure resistance and solvent resistance allow the product to cure a minimum of 24 hours.

COMPATIBLE ACCELERATOR/PRIMER

Primers such as B7471 (Standard Anaerobic Activator) or the faster B7649 Structural Accelerator can be used, however up to 30% strength loss can occur when using accelerators.

TECHNICAL FEATURES

Resin	Dimethacrylate
Colour	Yellow
Cure speed with Activator	<10 minutes
Cure speed without Activator	<15 minutes @ 20°C
Viscosity Brookfield Sp3 @20rpm@25°C	24,000-80,000cps
Max Thread Size	M80
Flash Point	>100°C
Shelf Life	18 months
Specific Gravity	1.09
Temperature Range	-55°C to +180°C

TYPICAL BOND CHARACTERISTICS

Full Cure Time	6-12 hours
Breakaway Strength	11N.m
Prevailing Torque	>3 to <9 N/mm ²
Static Shear Strength	>5 to <15 N/mm ²

HEALTH & SAFETY

This technical information sheet does not constitute a Safety Data Sheet (SDS). Before using this product ensure you have read and fully understood this products SDS.

STORAGE

Store in a cool area out of direct sunlight.
Shelf Life >18 months at 20°

PACKAGING FORMAT

Bottles.....50ml,65ml,160ml,250ml
Clam Packs.....50ml

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PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheets (SDS) for this and all other products being used are understood by all persons who will work with the product. Warranty: All products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Bondloc is consider accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Bondloc makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.

