

Technical Data Sheet

B290 WICKING GRADE THREADLOCKING PENETRANT

Revised 03.08.10



BARNWELL
THE SEAL OF APPROVAL

B290 Threadlocking Penetrant

PRODUCT DESCRIPTION

Penetrator Type B290 is a Fast Cure anaerobic securing compound which is very low in viscosity, thus enabling the wicking action to search into the voids in assembled components and cure anaerobically in the absence of air on close fitting metal parts.

APPLICATIONS

Penetrator B290 prevents loosening of metal threaded fasteners and secures close fitting cylindrical parts, sealing the parts from leakage.

USEFUL NOTES

Penetrator Type B290 can also be used as a weld sealant or porosity sealant, seeking out casting irregularities. The product can also fluoresce under UV lamps for inspection purposes.

PROPERTIES

A fast setting anaerobic which wicks in to already assembled parts searching in to the voids to set strong.

INSTRUCTIONS FOR USE

- Clean and dry surfaces to be bonded
- Apply adhesive to threads and assemble parts.
- Parts should be left for 15 minutes to reach handling strength, working strength 1 hour
- B7471 (Standard) or B7649 (Fast) Activators can be used, however 30% strength loss can occur when using accelerators.

STORAGE

Store in a cool area out of direct sunlight.
Shelf Life >12 months @ ambient temperatures.

HEALTH & SAFETY

Not recommended for use in pure oxygen and oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.
This technical information sheet does not constitute a Material Safety Data Sheet (MSDS). Before using this product ensure you have read and fully understood B290 MSDS.

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TECHNICAL FEATURES

Resin	Dimethacrylate Ester
Colour	Green Fluorescent
Fixture Speed No Activator	7 minutes
Fixture Speed With Activator	Not recommended
Viscosity – Brookfield Sp1 @50rpm @ 25°C	15-20 cps
Gap fill	0.05mm
Flash Point	>100°C
Shelf Life	12 month min
Specific Gravity	1.08
Max Operating Temperature	-55°C to + 150°C

CURED PERFORMANCE

Full Cure Time	12 hours
Typical breakaway strength	16 N.m
Typical breakaway ISO 10964	12 N.m
Typical prevailing ISO 10964	28 N.m
Typical breakaway to DIN 54454	30 N.m
Typical Prevailing strength DIN 54454	40 N.m
DIN 54454 BR/PR Range	30 N.m up to 55 N.m
ISO 10964 BR/PR Range	12N.m up to 40 N.m

PRESENTATION

Bottles.....10ml, 25ml, 50ml, 250ml
Clam Packs.....10ml, 25ml, and 50ml

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 Material Safety Data Sheets (MSDS) 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 considered 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.