

BluSeal Superstop 47B

Hydrophilic Butyl Waterstop Seal

Material Description

BluSeal Superstop 47B is a unique sealing compound which requires only installation to form a compression seal for in-situ concrete joints. **BluSeal Superstop 47B** has been designed for sealing various configurations of concrete elements and structures, it is ideal for use in both horizontal and vertical construction joints.

BluSeal Superstop 47B is manufactured utilising a specialised mixing process which encapsulates hydrophilic materials into a Butyl base creating a controlled, moisture activated seal. This allows the product to be used in major civil engineering project applications and ensures a durable and long-lasting installation.

BluSeal Superstop 47B has the structural integrity and the long-term durability to make it suitable for critical infrastructure works. **BluSeal Superstop 47B** does not expand prematurely from the wet weather due to its unique expansion control system, this helps minimise any pre-expansion when installed in fresh concrete.

Characteristics and Benefits

- Easy to install onto rough or smooth surfaces
- Excellent adhesion to concrete
- For both vertical and horizontal applications
- No on-site welding required
- Long term durability
- Unaffected by repeated wet and dry cycles
- Can withstand 6 Bar hydrostatic pressure

Areas of Application

- Watertanks
- Basements
- Tunnels
- Sewage and water treatment plants
- Reservoirs, dams and spillways

Product Data

Base Material	Butyl
Colour	Black
Size	25mm x 19mm x 5m rolls (6 rolls per carton = 30m per carton) 20mm x 15mm x 7.5m (8 rolls per carton = 60m per carton)
Application Temperature	-23°C - 52°C
Service Temperature	-34°C - 82°C

Application Specification

BluSeal Superstop 47B requires a minimum 50mm cover of concrete from the edge.

Concrete Preparation

1. All defective host substrate must be removed prior to application. Defective material includes cracked or structurally weakened surfaces and chloride contaminated and carbonated concrete.
2. All surfaces must be free of dust, oils and surface contaminants. This may require steam cleaning or high-pressure water blasting.
3. Apply a coat of any general contact adhesive 30mm wide, bead **BluSeal Leakmaster**, or flexible sealant (such as **SMP**), onto the substrate and onto the surface of the **BluSeal Superstop 47B**.

Application

1. Once both surfaces where the adhesive have been applied are touch dry, with the use of your thumbs or heel of your hand firmly press a continuous bead of **BluSeal Superstop 47B** into position, ensuring you achieve full contact with the adhesive on the concrete surface. **DO NOT STRETCH THE PRODUCT WHEN APPLYING IT INTO POSITION.**

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2. Use a neat, firm butt join to join BluSeal Superstop 47B together and then knead the ends together to form a continuous uninterrupted gasket. This type of join is used for continuous placement of **BluSeal Superstop 47B** and for any intersection joints.
3. Check that the **BluSeal Superstop 47B** has adhered to the substrate. If the substrate is rough or irregular more pressure may be required to ensure a that the **BluSeal Superstop 47B** has full contact with the substrate. There must be no visible gaps under the BluSeal Superstop 47B after installation.
4. The protective paper layer cover can be removed anytime prior to the concrete pour.
5. Placement of the concrete can occur once the contact adhesive has dried, making sure the concrete is properly compacted and vibrated around the **BluSeal Superstop 47B**.
6. If the **BluSeal Superstop 47B** has been exposed to water prior to the concrete pour, check for pre-expansion. If the product has pre-expanded then remove that section and replace with a new length of **BluSeal Superstop 47B**.
7. For vertical and overhead applications, it may be necessary to secure the BluSeal Superstop 47B with nails placed approximately 250mm centres. Nailing is only required as additional security where the contact adhesive may not have been provided with ideal curing conditions.

Project Specification Clause

HYDROPHILIC WATERSTOP - The hydrophilic waterstop used for this project shall be a prefabricated product that has independent testing to validate the performance outlined in the technical data table on the following pages. BluSeal Superstop 47B manufactured by Bluey or equivalent shall be accepted.

Performance Data

Tested Characteristic	Standard	Result
Specific Gravity	ASTM D-71	1.40/1.45
Hydrocarbon Content	ASTM D-297	47% min
Volatile Matter	ASTM D-6	1% max
Penetration Cone	ASTM D-217	40 ± 5 @ 77F 150gm, 5 seconds
Hydrostatic Head Pressure Resistance		60m (6.0 Bar)

Total Days of Exposure in Potable Water

0-4 Days	Very minimal expansion due to expansion control system
7 Days	118% expansion
14 Days	131% expansion
28 Days	142% expansion
56 Days	177% expansion

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Disclaimer

BluSeal Superstop 47B-ANZ-V1-0626

This Technical Data Sheet is provided for general information and instruction only. The properties and characteristics set out herein represent typical testing results under laboratory conditions. Results of actual product characteristics may vary slightly. Site-specific and project-specific conditions may affect product performance, including without limitation: surfaces, environmental conditions, contact conditions, storage conditions, storage timeframes, weather, and climatic or seasonal conditions. Not all product parameters are batch tested as part of the manufacturing quality control process, and performance may vary between batches.

If Bluey gives any express written product warranty in relation to the product, that warranty is subject to the foregoing qualifications, despite anything to the contrary in any other document. All other representations, advice, suggestions or promises regarding the product's performance or its implementation, whether verbal or in writing, and whenever given, including in the course of any field services, are expressly disclaimed. Without limiting the foregoing, Bluey will have no liability for loss or damage of any kind if any application specifications are not followed.

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