

TECHNICAL DATA SHEET

- Jointing Systems
- Polythene Builders Film
- Formwork
- Formworking Accessories
- Nails
- Tie Wire
- Loop Ties
- Waterproofing

Superstop® 47B

DESCRIPTION

Superstop® hydrophillic butyl waterstop seal is a unique sealing compound which expands in a controlled fashion when exposed to moisture, forming a compression seal in concrete joints.



FEATURES

- Unique manufacturing process gives Superstop® 47B the ability to provide self-healing joint waterstop seal
- Unlike other clay-based waterstops, Superstop® 47B will not expand to the point that it begins to disintegrate.
- Does not expand prematurely from wet weather due to its unique expansion control system.
- Does not expand from the water in fresh concrete when poured against it
- Can be embedded in to wet concrete to create a gasket type seal.
- Tested to withstand a 100m (10 Bar) head of water pressure in potable and salt water conditions
- Can expand up to 180% after 30 days of continual submersion in distilled water.
- Safe for drinking water applications - Complies to NSF/ANSI Standard 61 Drinking water Systems Components

APPLICATIONS

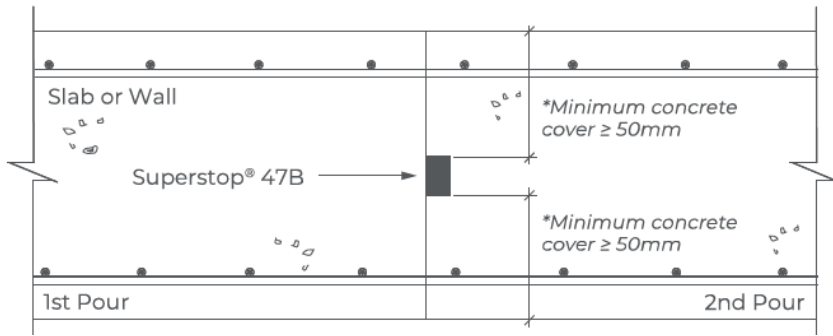
- Water Tanks
- Reservoirs
- Dams
- Spillways
- Sewerage Treatment Plants
- Water Treatment Plants
- Swimming Pools
- Box Culverts
- Bund Walls
- Basements
- Underground Structures
- Tunnels
- Subways
- Retaining Walls
- Pits
- Manholes

ESTIMATING & SIZES

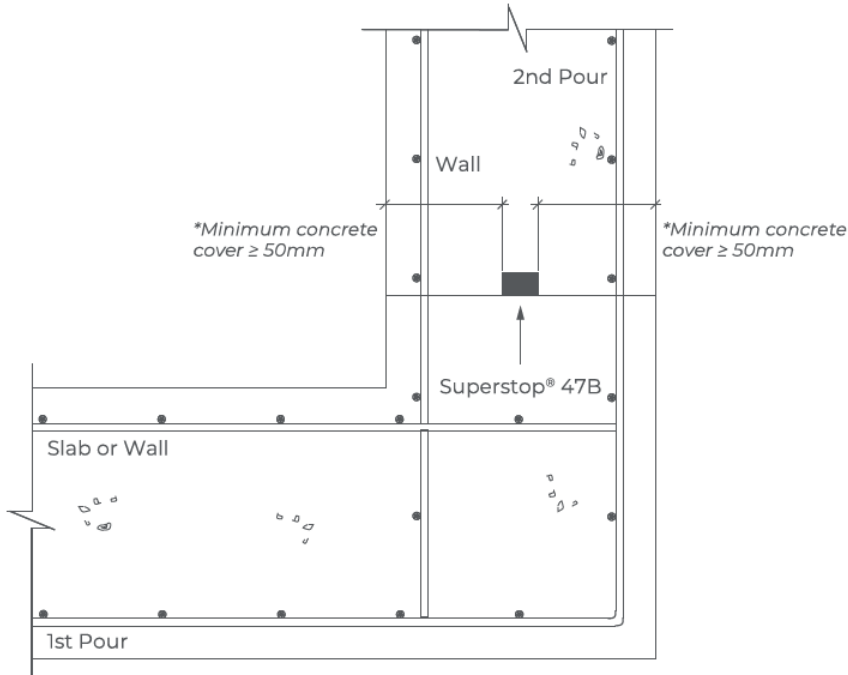
Code	Description	Qty / Box	Coverage
WSSS47B2015	Superstop® 47B 20mm x 15mm - 7.5m Roll	8	NA
WSSS47B2520	Superstop® 47B 25mm x 20mm - 5m Roll	6	NA
CJ100-1	CJ-100 Contact Adhesive 1L	NA	20-30m ² /L
CJ100-36	CJ-100 Contact Adhesive 3.6L	NA	20-30m ² /L

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TYPICAL APPLICATIONS



SLAB ON GROUND OR WALL



SLAB TO KICKER IN WALL

NOTES

Due to expansive forces, Superstop® 47B should be both detailed and installed with a minimum 50mm clear cover to the face of the concrete. Expansion rate can vary in salt and contaminated water. Increase cover when using light weight, low strength concrete. Not for use where excessive shrinkage of the concrete may occur at the joint faces. Do not stretch the Superstop® 47B during installation. Not for use in movement (expansion, isolation and contraction) joints.

TEST REPORTS - INDEPENDENT LABORATORY

- Exposure & Water Immersion Expansion in Potable Water
- Exposure & Hydrostatic Head Pressure (cyclic wet & dry) in Potable Water - 60m (6.0 Bar)
- Water Immersion Expansion in Salt Water (5% NaCl)
- Hydrostatic Head Pressure in Salt Water (5% NaCl) - 100m (10 Bar)
- National Sanitation Foundation (NSF) Certification for Potable Water Use

Note: The above test reports are available on request.

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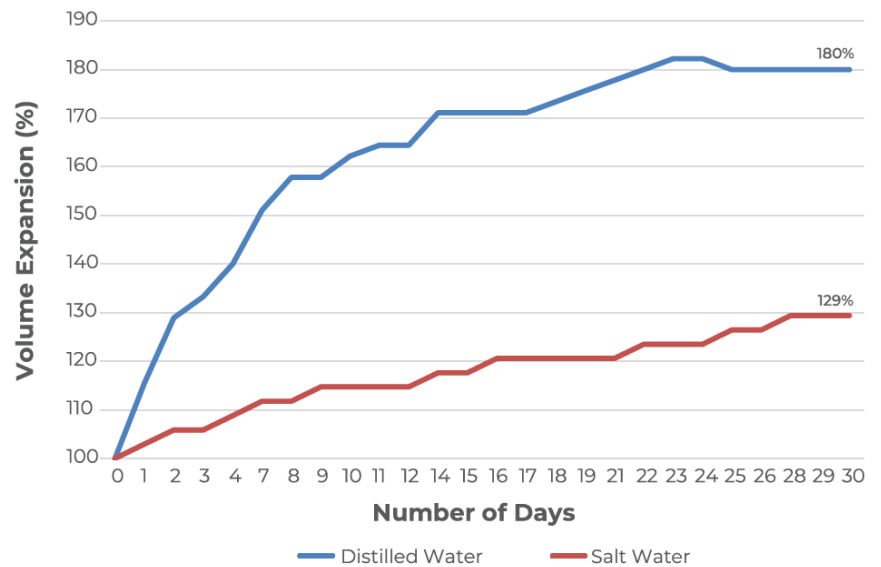
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HYDROSTATIC HEAD PRESSURE RESISTANCE - 100 METRE (10 BAR)

1. Superstop® 47B has been tested with potable and salt water to withstand a hydrostatic head pressure resistance of 100metres (10Bar) without any water leakage or pressure drop.
2. The testing was undertaken twice, with a one month dry cycle in between the 1st and 2nd test to simulate a wet and dry cycle of the joint.
3. The above testing was conducted by an independent testing laboratory and a copy of the test report is available on request.



EXPANSION RATE PROPERTIES - 30 DAY IMMERSION DURATION



Expansion rate properties of Superstop® 47B in various solutions.

Note:

- 100% indicates original size.
- Expansion can vary between batches of up to 10% - 20 %
- The above test reports are available on request.

PHYSICAL AND PERFORMANCE PROPERTIES

DESCRIPTION	TEST METHOD	RESULTS
Base Material		Butyl
Colour		Black
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 @ 77F, 150GM, 5 sec	ASTM D217	40 ±5
Hydrostatic Head Pressure Resistance		100 metre (10 Bar)
Volume Expansion in Water		180% at 30 Days
Application Temperature (°C)		-23 to +52
Service Temperature Range (°C)		-34 to +82

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INSTALLATION INSTRUCTIONS

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

1. Brush off any dust or debris from the surface where the Superstop® 47B is to be applied. Brush a coat of CJ-100 Adhesive 30mm wide onto the concrete surface and one coat to the surface of the Superstop® 47B.
2. Once both surfaces where the adhesive was applied are touch dry, with the use of your thumbs or heel of your hand, firmly press a continuous bead of Superstop® 47 B into position, making sure you achieve full contact with the adhesive on the concrete surface. Do not stretch the Superstop® 47B when applying it into position.
3. Use a neat, firm butt joint to join Superstop® 47B together and then knead the ends together to form a continuous uninterrupted gasket. This type of joint is used for continuous placement of Superstop® 47B and for any intersection joints.
4. Check to see that the Superstop® 47B has totally adhered to the concrete surface. If the surface is rough or irregular, you may need to use a firm hand pressure to make sure that the Superstop® 47B has full contact with the surface. There must be no visible gaps under the Superstop® 47B after installation.
5. The protective paper layer cover on the Superstop® 47B can be removed any time prior to the second pour of concrete taking place.
6. Placement of the second pour of concrete can be applied once the CJ-100 Adhesive has dried. Upon pouring, make sure the concrete is properly compacted and vibrated around the Superstop® 47B.
7. If the Superstop® 47B has been exposed to water (moisture) prior to the second pour taking place, check for pre-expansion. If the product has pre-expanded, then remove that section and replace with a new length of Superstop® 47B.
8. For vertical construction joints and overhead applications, it may be necessary to also secure the Superstop® 47B with nails, placed approximately every 250mm apart. This is usually only required as extra security if you need to pour your concrete prior to the CJ-100 Adhesive drying completely.



Apply CJ-100 adhesive to clean, dry concrete, and to the back of the Superstop® 47B.



Once dry, push Superstop® 47B firmly on to the prepared surface with your fingers or thumbs.

Set-Up products are manufactured to the highest quality, and if used in the correct applications and in accordance with all directions, will produce quality and consistent results. However Allcon Group Pty Ltd accepts no responsibility for inappropriate usage or faulty workmanship by the end user.

Product: Set-Up Superstop® 47B
Issue Date: April 2024

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P: 1300 ALLCON (255 266)
E: sales@allcongroup.com.au

www.allcongroup.com.au