

Data Sheet

Waterproofing Structural Waterproofing from Rawell



RAWSEAL[®] RC 50 Black Waterstop

RAWSEAL[®] RC50 Black Waterstop is a prehydrated vacuum extruded sodium bentonite waterstop designed to prevent the ingress of water through cast in-situ concrete construction joints. The Black Waterstop range contain a retardant which delays the rate of swell of the profile.

INSTALLATION

All projects must be assessed on an individual basis as installation details differ depending on the profile and application. For project specific recommendations contact the Technical Sales Department at Rawell.

RAWSEAL[®] RC50 Black Waterstop is generally used in horizontal and vertical concrete 200mm thick or thicker. It is used both as a post applied profile into a rebate or cast into the centre of a pour where greater quantity of hydrophilic material is required than provided by the 25mm profiles.

A 25mm x 25mm rebate shall be created by fixing a void former in the stop end shutter of each side of a construction joint. In a slab application the RAWSEAL[®] RC50 Black Waterstop will be placed into the rebate after the first pour has been completed and immediately before the second pour. It will then be confined by the second pour of concrete forming a compressive seal in the joint. In wall applications the placement of the second void former will create a 50mm x 25mm rebate in the construction joint when the shutters and void former is removed.



The RAWSEAL[®] RC50 Black Waterstop shall be inserted into pre-formed rebate no deeper than 25mm, this rebate shall be brushed to be free from dust or debris. Do not install onto an iced surface or into standing water.

The RAWSEAL[®] RC50 Black Waterstop shall be secured to the prepared surface or rebate with Rawtite Rapid Bond Adhesive or nails to prevent displacement when concrete is poured. When applying the Rawtite place a small "pea sized" drop onto the clay surface of the waterstop and push firmly onto the concrete, maintain a firm even pressure for 3-4 seconds

When applied to vertical surfaces the RAWSEAL[®] RC50 Black Waterstop must be fixed securely with sufficient fixings to prevent it from hanging loosely. Rawpaste Mastic shall be applied to any honeycombing on the surface of the concrete or any spalling where the void formers have been removed. Any joints between two strips of RAWSEAL[®] RC50 Black Waterstop must be butted or spliced together, then kneaded to provide a continuous seam of bentonite. **Do not overlap the ends of the lengths.** Where required cut the lengths with a sharp blade or utility knife to fit ends together. When jointing vertical lengths to horizontal lengths simply butt and knead together, no special accessory pieces are required.

Generally the RAWSEAL[®] RC50 Black Waterstop is used in association with the application of a sheet of RAWMAT[®] HDB membrane placed over it to confine the Waterstop between the structure and the membrane.

When pipe or duct penetrations appear through a wall or floor, the RAWSEAL[®] RC50 Black Waterstop can be used as a puddle flange to prevent the passage of liquid along the length of the pipe or duct. To do this, cut the coil of RAWSEAL[®] RC50 Black Waterstop to the circumference of the penetration. Fix to the penetration using spots of Rawtite Rapid Bond Adhesive or tie securely with tie wire or cable ties. Ensure length ends are butt jointed and kneaded together and that the RAWSEAL[®] RC50 Black Waterstop is in tight direct contact with the full circumference of the penetration. Care should be taken, when placing and vibrating the concrete, that the RAWSEAL[®] RC50 Black Waterstop is not displaced.

On irregular surfaces make sure that the RAWSEAL[®] RC50 Black Waterstop remains in direct contact with the concrete/substrate at all times along the entire length of the installation. The RAWMAT[®] HDB membrane backfilling or confining concrete must be placed within 5 days of installation of the waterstop profile.

Surplus material may be re-used provided it is immediately re-wrapped and stored appropriately. RAWSEAL[®] RC50 Black Waterstops are not intended for use as an expansion joint sealant. Contact Rawell's Technical Department for advice on your particular type of application.

For details of Rawell products and services visit www.rawell.com where you can find more information suited to your specific needs, or call +44 (0) 151 632 5771

DESPATCH QUANTITIES

1 Box = 4 x 5m coils = 20m - Weight = 23kg
Box Dimensions = 448mm x 448mm x 120mm

1 Pallet = 40 Boxes = 800m - Weight = 950kg
Pallet Dimensions = 1,140mm x 1,140mm x 1,130mm

24 Pallets (19,200 Lm) per 40 ft Road Trailer/Container
18 + 2 x ¾ x Pallets (15,600 Lm) per 20 ft Container

* Weight restrictions vary from country to country due to legislation.
Please obtain confirmation from Rawell on territorial transport legislation.

HANDLING & STORAGE

Coils of RAWSEAL® RC50 Black Waterstop are individually wrapped in polythene, prior to packaging, to retain moisture within the product and placed in boxes. Each box has a unique batch identification code. Each pallet is covered with polythene box covers to weatherproof the product.

Boxes must be stored on pallets but pallets must not be stacked one on top of another. Once opened the pallets must be stored under cover or covered with a protective weatherproof sheet to prevent rain damage.

All information contained within this document is given in good faith and is correct to the best of Rawell Environmental Ltd.'s knowledge. However, this information is not legally binding and may be changed at any time without notice.

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NOTES:

Type RC50

Application of Type RC50 to a construction joint

