

Ruberoid Redstop



Product Data Sheet

Sodium Bentonite Construction Joint Sealant

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Features and benefits

- Eliminates split-forming, splices and welding, saving time and labour costs
- Active material seals small cracks and voids permanently
- Flexible lightweight product that contours irregular concrete and penetrations
- Quick and easy to use
- Face fixed - no preformed chases
- Can be installed in hot and cold weather
- Effective up to 70m hydrostatic pressure
- No special intersections or connections
- No rigid joints
- The manufacturer of the product holds BBA approval

Description

Ruberoid Redstop is a flexible, easy to install construction joint sealant consisting of sodium bentonite and butyl rubber. It can be used in all concrete underground structures, basements and subways. On contact with water, the material swells to form a permanent and watertight seal, which eliminates water tracking over or along the waterstop. Ruberoid Redstop's expansive properties allow it to migrate and seal small cracks and void areas in the concrete.

Typical uses include both vertical and horizontal construction joints, new-to-existing construction, and around penetrations such as plumbing and electrical conduit. Fast and easy to install, Ruberoid Redstop will maintain an effective seal against hydrostatic pressures of up to 70 metres (7 Bar).

Ruberoid is the UK sole supplier of the Redstop system. The product is covered by British Board of Agrément Certificate No. 86/1650, held by the manufacturer.

Ruberoid was the first manufacturer in its field to gain quality accreditation to BS EN ISO 9002: 1994 (formerly BS 5750).

Product details

Dimensions and weights	Ruberoid Redstop
Cross section mm	19 x 25 (nominal)
Coil length lin m	5 (nominal)
Coils per carton	6
Carton content lin m	30
Carton dimension mm	400 x 40 x 300
Carton weight kg	25

Property		
Specify gravity at 25°C	ASTM D-71	1.57
Softening point	ASTM D-30	N/A
Penetration	ASTM D-217	
	150 GTL	58
	300 GTL	85
Flash point	ASTM D93.97	185°C
Max. head pressure	Hydrostatic pressure test	70m (7 Bar)
Accelerated ageing	(Mechanical oven 4 hours at 100°C)	Maintained 90% solids
Flow resistance	(20mm overhead joint exposed to 57°C for 7 days)	No flow
Adhesion to concrete		Mechanical fastening/adhesive

Application temperature		-15°C to +52°C
Service temperature		-40°C to +100°C

Chemical Composition	Test Method	Ruberoid Redstop
Butyl rubber hydrocarbon (% by weight)	ASTM D-297	24.9%
Bentonite	SS-S-210-A	75.0%
Volatile matter	ASTM D-S	Below 1%

Note: contains no asbestos fibres or bitumen

Application

All surfaces to which Ruberoid Redstop is to be applied should be clean and free of standing water. Any loose or flaking concrete must be removed. The practice of scabbling joints is recommended.

1. Uncoil a length of Ruberoid Redstop and apply exposed face to concrete.
2. Push against release paper, to force Redstop into undulations of concrete.
3. When sufficient Ruberoid Redstop has been positioned remove backing paper.
4. Position Revofix fixing mesh over Ruberoid Redstop. Overlap successive Revofix sections, and nail at overlaps using fixings supplied.
5. Provide one additional fixing between Revofix laps, i.e. at 300mm centres.
6. If Ruberoid Redstop swells 1.5 times its original size prior to encapsulation by concrete, it must be replaced with new material.
7. Ruberoid Redstop must have a minimum of 75mm of concrete cover on all sides.
8. To join successive lengths of Ruberoid Redstop, simply cut and butt ends. Do not overlap.
9. When installing Ruberoid Redstop vertically, work from the base up to prevent material deformation/elongation.

Storage

Ruberoid Redstop must be stored in dry conditions.

Shelf life

Indefinite

Other products

Full product literature, health & safety and technical sheets are available as downloads from our website www.hyload.co.uk or on request by email: marketing@ruberoid.co.uk

Ruberoid Building Products

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