

THE SWELLABLE AND RESEALABLE WATERSTOP

KEY BENEFIT SUMMARY

- Quick, easy application
- No overlapping or welding needed
- Rain only has a minimal pre-moistening effect on the product
- High swelling capacity which ensures sealing of all cavities and cracks
- In two thicknesses for all standard construction gaps and penetrations
- Settlement does not affect sealing performance of the product
- Seals efficiently and permanently with a waterhead of up to 33 metres

PRODUCT INFORMATION

Description

Superstop® is an elastic swelling strip waterstop based on sodium-bentonite. When it comes into contact with water, this unique natural clay material absorbs water molecules and increases in volume. Tiny flakes of bentonite disperse and penetrate cracks and cavities. Once in place, the material presses against the concrete and effectively prevents water from getting through. The seal improves as hydrostatic pressure increases. The swelling process can be reversed without affecting the usability of the Superstop®. Once in place, Superstop® does not displace or deteriorate.

Superstop® comes in two different sizes, **1/2" (13 mm)** thickness and **3/4" (20 mm)** thickness. Depending on the size used, the recommended position in a construction joint are:

- The 1/2" (13 mm) version is our recommended size for a concreting contractor. It can be positioned on the exterior side of reinforcing bars but must have a minimum cover of 25 mm in 20 N/mm² concrete.
- The 3/4" (20 mm) version is utilised where the market place has been accustomed to this size, which must have a minimum cover of 50 mm in 20 N/mm² concrete.

Superstop® is manufactured in Standard and Saltwater Grades.

Usage

Superstop® can be used in pre-cast or cast-in-situ concrete installations, and is ideally suited for the following applications:

- Concrete cold joints in below ground walls
- Construction joints for slabs
- Water treatment plants
- Underground vaults
- Tunnels
- Sewage treatment plants
- Precast concrete panel systems.

Limitations

Standard Superstop® should only be used in applications where the ground water is not contaminated. In those areas where **saltwater** or **organic contaminated water** is expected, please contact RPM/Belgium N.V. for compatibility with Superstop® Saltwater grade. Details and installation assistance are available upon request.

Superstop® should be used in areas fully confined in concrete by a minimum of 25 mm for the 1/2" (13 mm) size and 50 mm for the 3/4" (20 mm) size.

Any exposed length of Superstop® which has been allowed to hydrate and significantly well should be given ample time to dry before placement of concrete. Proper installations should include nailing at 300 mm centres to avoid any displacement during the concrete placement.

Packaging

1/2" (13 mm) thickness Superstop®

- 1 roll measures 1" (25 mm) wide by 1/2" (13 mm) thick by 6,1 metres long
- 10 rolls (total length 61 metres) per carton (weight: 32 kg)
- 24 cartons per pallet

3/4" (20 mm) thickness Superstop®

- 1 roll measures 1" (25 mm) wide by 3/4" (20 mm) thick by 3,96 metres long
- 10 rolls (total length 39.6 metres) per carton (weight: 32 kg)
- 24 cartons per pallet

TECHNICAL INFORMATION

Specific gravity at 25°C:	1.75	ASTM D-71
Softening point:	100°C	ASTM D-30
Flash point:	None	ASTM D-93-97
Application Temperature Range:	-18°C to 80°C	
Service Temperature Range:	-40°C to 110°C	
Colour:	grey	
Tear strength:	31,5 kgs.	
% Elongation-Ultimate Failure:	50%	ASTM D-638 Type 4
Water flow through a concrete joint with 30m water-head:	No flow	ASTM D-751 Method A
Adhesion to concrete:	Excellent	Use Vulkem® 116

AVAILABLE/INDEPENDENT TESTS AND APPROVALS

- Enquete Technique SOCOTEC N° CX 4802.
- Many other independent test reports and certificates available from RPM/Belgium N.V. on request.

USAGE GUIDELINES

Application

1. Joint surfaces where the Superstop® is to be installed should be troweled smooth. Remove all debris and sweep the surface prior to installation.
2. Remove release paper, exposing the adhesive. Superstop® roll ends are simply butted together. Nail at 300 mm centres.

STORAGE

Protect from moisture. Store on a dry surface. If outside storage, cover with a plastic foil.

HEALTH AND SAFETY PRECAUTIONS

Product and Safety Data Sheets must be read and understood.

TECHNICAL SERVICE

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GUARANTEE

The RPM Belgium Group warrants all goods to be free from defects and will replace materials proven to be defective but makes no warranty as to appearance of colour.

The information and recommendations herein are believed by the RPM Belgium Group to be accurate and reliable.