

**SAMOBUBREĆA I
SAMOZAPTIVAJUĆA
VODONEPROPUSNA TRAKA.**

GLAVNE KARAKTERISTIKE

- Brza uradnja.
- Bez preklopa i varenja.
- Kiša stvara samo minimalni efekat vlaženja proizvoda.
- Visoki kapacitet bubrenja u dodiru sa vodom obezbeđuje zaptivanje svih šupljina i pukotina u betonu.
- Trakamje rasploživa u dve debljine za sve standardne konstrukcione šupljine i prodore.
- Zaptiva efikasno i stalno pritiska vodnog stuba od 33 m.

INFORMACIJE O PROIZVODU

Opis

Superstop je elastčna bubreća traka (u kontaktu sa vodom) na bazi natrijum - bentonita. Kad dođe u kontakt sa vodom prirodni glineni materijal apsorbuje vodu i povećava zapreminu. Mali delići bentonita se raspodeljiju i penetri- raju unutar pukotina i šupljina. Jednom postav- ljen, materijal vrši pritisak na beton i efektivno sprečava prodor vode na tom mestu. Zaptivanje se povećava sa povećanjem hidrostatičkog pritiska. Proces bubrenja može biti i obrnut bez uticaja na upotrebljenost Superstop-a. Jednom postavljen na na mesto ne pomera se i ne menja kvalitet. Superstop se isporučuje u dve različite dimenzije 1/2" (13mm) i 3/4" (19mm) debljine. U zavisnosti od debljine se i preporu- čuje njegovo mesto postavljanja na konstruk- cijskim spojevima:

- Verzija 1/2" (13mm) je preporučena dimenzija za ugrađivače betona. Ona može biti postavljna sa spoljašnje strane armature i ima minimalnu pokrивnost od 25mm u betonu 20N/mm².
- Verzija 3/4" (19mm) je preporučena dimenzija za ugrađivače betona i ima

minimalnu pokrивnost od 50mm u betonu 20N/mm².

Superstop se izrađuje u Standardnoj i Saltwater verziji.

Upotreba

Superstop može biti postavljen pre ili u toku instalacije betona i idealan je za sledeće primene:

- za betonske spojeve na temeljnim zidovima
- na sastavima betonskih ploča
- podzemni svodovi, lukovi
- tuneli
- fabrike za preradu vode
- prefabrikovani betonski elementi

Ograničenja

Superstop standard se može koristiti na mestima gde podzemna voda nije kotaminirana. Na mestima gde se očekuje pojava slane ili organski kontaminirane vode molimo vas da kontaktirate RPM/Belgium N.V. za potvrdu kompatibilnosti sa Superstop Saltwater verzijom.

Superstop treba da bude korišćen na mestima maksimalnog ograničenja u betonu od minimum 35 mm za širinu trake od 1/2" (13mm) i 50mm za širinu trake od 3/4" (20mm).

Svaka od ponuđenih dužina Superstop-a

Pakovanje

TEHNIČKE INFORMACIJE

Sastav

Boja zasnovana na modifikovanoj poliesterskoj smoli i bezmirisnim rastvaračima.

Karakteristike

Temperatura primene	Između +8°C i +30°C
Temperatura izdržljivost	Između -30°C i +60°C
Vreme sušenja(+20°C, 50% RH):	±4-8 sati
Vreme površinskog sušenja(+20°C, 50% RH):	24 sata.
Potpuno suv(+20°C, 50% RH):	7 dana
Potrošnja:	0,15-0,25 l/m ²
Temperatura paljenja	>36°C
% čvrstoće:	ca. 73 težinskih %
Debljina filma:	34-51 µm (suv)

UPUTSTVO ZA KORIŠĆENJE

Čišćenje

Čisti alat sa Sanitile® Thinner.

SKLADIŠTENJE

Skladištite u hladnoj , suvoj prostoriji.

ZDRAVSTVENE I SIGURNOSNE MERE

PREDOSTROŽNOSTI

Prizvodni i sigurnosni podaci o materijalu moraju da se pročitaju i razumeju.

TEHNIČKI SERVIS

Kontaktirajte RPM/Belgija N.V.

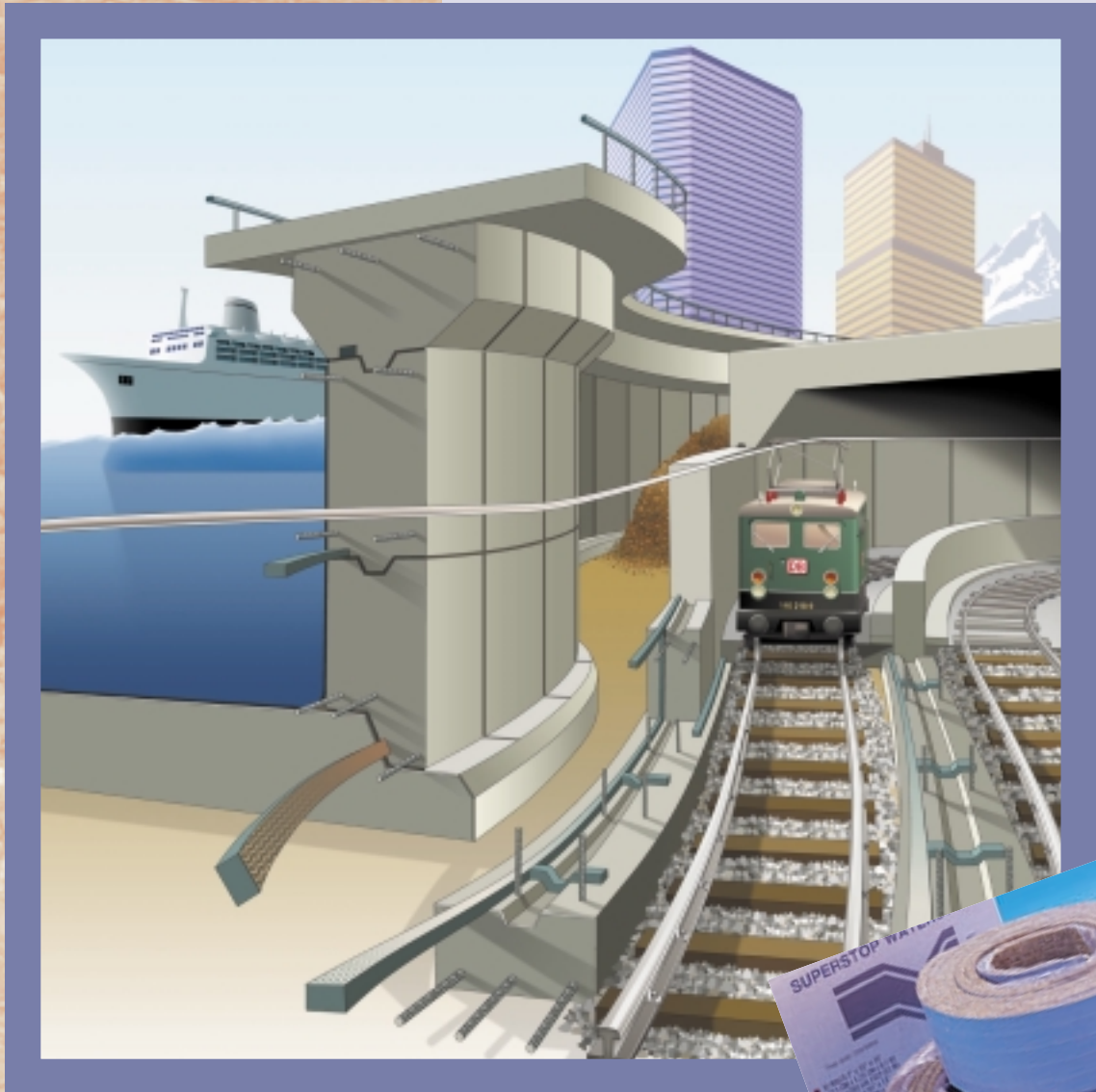
GARANCIJA

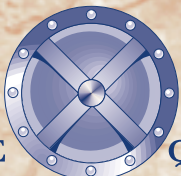
RPM/Belgija N.V. garantuje da će sva roba biti bez greške i biće zamenjena ukoliko se dokaže defekt.

Uvereni smo da su informacije tačne i osnovane.

SUPERSTOP®

**The ultimate cold joint
expandable waterstop!**



PROTECTIVE  QUALITY®

RPM/Belgium N.V.

An  Company

SUPERSTOP®

WATERSWELLING AND RESEALABLE WATERSTOP MATERIAL

SUPERSTOP® is an elastic swelling strip based on pure 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®.

Advantages

- High swelling capacity
- Available in two industrial standard thicknesses: 13 mm (1/2") and 19 mm (3/4")
- Seals efficiently and permanently with a waterhead of up to 33 m
- Ensures sealing of cavities and cracks
- Quick, easy application
- No overlapping or welding is needed
- Light rain (drizzle) has only a minimal pre-moistening effect on SUPERSTOP®
- Settling cracks caused, for example, by shifting of the construction will not affect the SUPERSTOP® seal

Ease of installation



1. Joint surfaces where the Superstop® is to be installed should be relatively smooth. Remove all debris and sweep the surface prior to installation. Superstop® should be fixed mechanically.



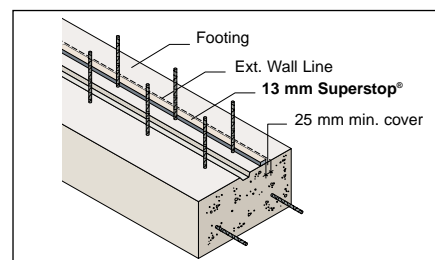
2. Remove release paper, exposing the adhesive. Superstop® roll ends are simply butted together.



3. Nail should be applied in the center of the Superstop® at 300 mm centers.

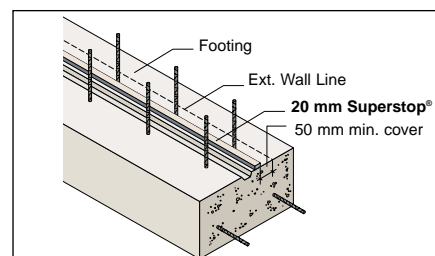
Superstop® sizes and the recommended position of each in a construction joint (non-moving).

1/2" Superstop is recommended to the contractor. It can be positioned on the exterior side of the outer row of dowels but must maintain 25 mm based on min. 210 kg/cm² concrete cover.



1/2" Superstop®

3/4" Superstop can also be utilised wherever the market place has historically been accustomed to this size. However, it must be confined by a minimum of 50 mm of min. 210 kg/cm² concrete cover.



3/4" Superstop®

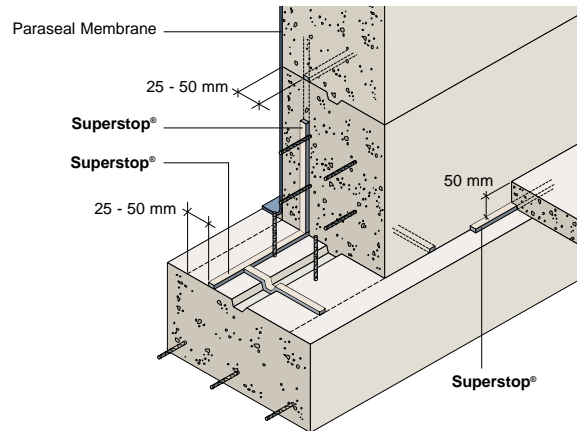
Installation

Superstop® is well suited for use in most types of below grade cast-in-place concrete installations. Superstop® must be confined on all four sides.

Appropriate applications include:

- Concrete cold joints in below grade walls
- Construction joints for slab-on-grade
- Water treatment plants
- Underground vaults
- Tunnels
- Sewage treatment plants

Information about expansion joints systems are available upon request.



Historical

The use of waterstops in the non-moving joints (cold joints) of concrete prevents corrosion of the concrete reinforcing iron. For years, the only available materials designed to stop leakage in this vital area were a series of plastic sheets premolded to form a dumbbell shape, then installed as shown in fig. 1. This type of product is difficult and costly to install. It is time consuming and seldom forms a watertight seal to the concrete. This lack of seal becomes worse during the normal shrinkage of the curing concrete.

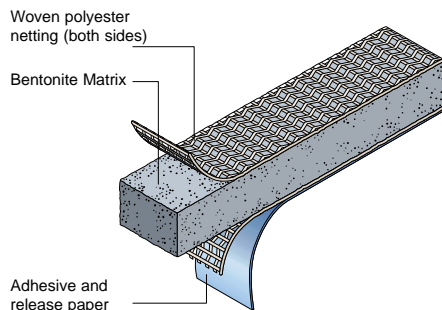
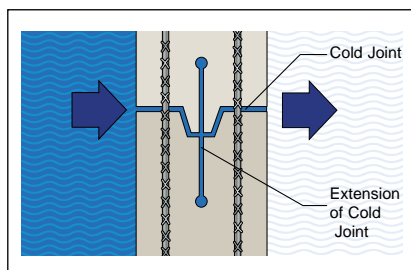
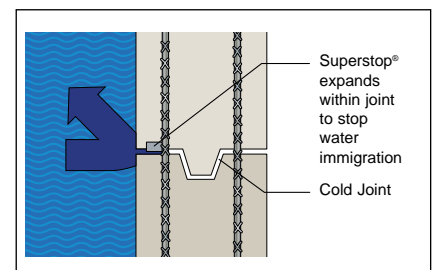


Fig. 1



PVC Dumbbell waterstop

If there is a hairline separation between the PVC and concrete interface, water can travel through this joint.

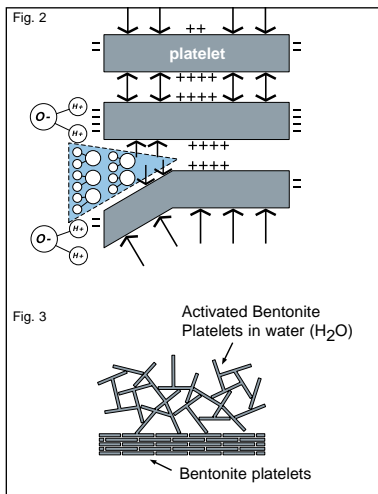


Superstop® waterstop

Superstop® is capable of protecting your reinforced steel from premature rusting and degradation.

Bentonite Clay: a unique structure

Bentonite clay consists of tightly packed ionically charged microscopic platelets. Within and between these platelets there is a separation of positive and negative charges. Water molecules are attracted by an interaction with the positive and negative charges in this unique clay structure. When water comes into contact with Superstop®, these molecules wedge their way between the bentonite platelets, causing the platelets to separate and swell apart (fig. 2). The hydrated bentonite platelets form an almost impenetrable maze which seals against further fluid migration (fig. 3). Thus, as hydrostatic pressure is exerted against the bentonite, the confined platelets compact tighter, causing a ball valve effect (higher pressure causes a tighter seal).



Dry Superstop® in concrete



Superstop® after 3 days of wetting



Superstop® expansion (after 72 hours of wetting)

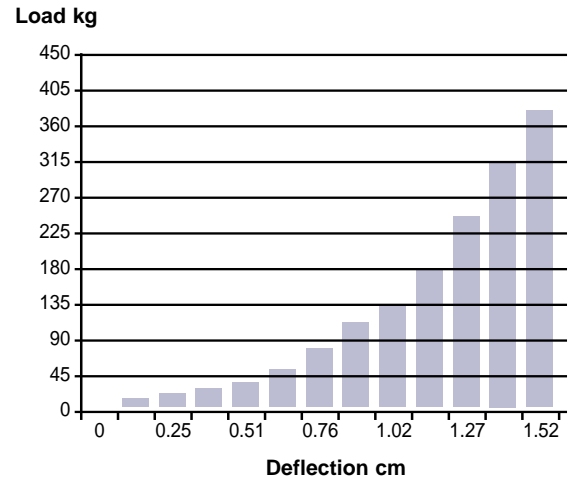
Superstop® is capable of going through numerous wet-dry cycles. Wet cycles include complete submersion for 72 hours. Rain has minimal effect on product prehydration.

SUPERSTOP® Technical Details

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Specific gravity:	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 110°C	
Service Temperature Range:	-40°C to 110°C	
Color	Gray	
Tear Strength:	31.5 kg	
% Elongation-Ultimate Failure:	50%	ASTM D-638 Type 4
Water flow through a concrete joint with 30 m waterhead:	No Flow	ASTM D-751 Method A

Loading Test of Paramount Inc. SUPERSTOP®

Surface area: 6.45 m² Thickness: 1.75 cm
Test institute: Twin City Testing Corporation



Water migrate test of Paramount Inc. SUPERSTOP®

Test material: Superstop® 1/2" Test file: N° 912158

Test institute: WJE Inc., Engineers, Architect, Material Scientists

Pressure kg/cm ²	Water height m	Time hours	Total test Time hours	Result
0.35	3.50	24	24	no water immigration
0.70	7.04	24	48	no water immigration
1.05	10.54	24	72	no water immigration
1.40	14.05	24	96	no water immigration
1.75	17.58	24	120	no water immigration
2.10	21.09	24	144	no water immigration
2.45	24.59	24	168	no water immigration
2.81	28.13	24	192	no water immigration
3.16	31.63	24	240	no water immigration

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 recommendations. Technical department will furnish water analysis from your sample. Details and installation assistance are available on request. Superstop® should be used in areas fully confined in concrete by a min. of 25 mm for the 13 mm size and 50 mm for the 19 mm size.

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

This brochure is not intended to establish product recommendations for any installation. To the best of our knowledge the information contained herein is true and accurate at the time of issue, but is subject to change without prior notice.

Warranty:

RPM/Belgium N.V. warrants all goods to be free from defects and will replace materials proven to be defective. The given information corresponds to our present standard of knowledge.

Authorised distributor:



*RPM/Belgium N.V. is a subsidiary of RPM Inc., USA, a public owned American company.
RPM/Belgium N.V. is a leading manufacturer of industrial flooring systems, coatings, sealants and membranes.
RPM/Belgium N.V. is certified by Lloyd's as an ISO 9001 company and all products are controlled according to the ISO 9001 quality standard.*

RPM/Belgium N.V.

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