

PRODUCT DESCRIPTION: Fibseal SW-A swell bar is used for sealing of concrete construction joints, precast concrete segments, proofing of shafts and pipe penetration subjected to continuous or intermittent hydrostatic pressure. It swells in contact with water to seal the gaps and pores in a concrete joint. It can swell up to 450%.

AREAS OF APPLICATION

- To seal construction joints
- To seal construction joints in tunnel segments, precast concrete, cable ducts etc.
- To seal pipe & steel work penetration through walls and slabs.

ADVANTAGE

- Easy and secure application.
- Good swelling properties on contact with water.
- Good elastic properties.
- Permanent water resistance, no leaching.
- Non-polluting, ecological user friendly system.
- Need no hardening time.

Profile Type :-

Available Size*: Type(mm)	Width(mm)	Thickness(mm)
SW-A1010	10	10
SW-A 2003	20	3
SW-A 2005	20	5
SW-A 2006	20	6
SW-A 2010	20	10
SW-A 2020	20	20
SW-A 2030	20	30
SW-A 2040	20	40
SW-A 2503	25	3
SW-A 2505	25	5
SW-A 2506	25	6
SW-A 2510	25	10
SW-A 2525	25	25
SW-A 3105	31	5
SW-A 3106	31	6

TECHNICAL SPECIFICATIONS

Tensile strength	13 Kgf/cm ²
Specific density	1.25 gm/cm ³
Hardness	40-50 (Shore A)
Elongation at break	300% min.
Swelling rate	450% vol. in pure water & 175% vol. in sea water
Service temperature range	-30°C to 60°C
Change of volume	7 days in tap water ≥ 200% 14 days in tap water ≥ 300%

Chemical Properties:-

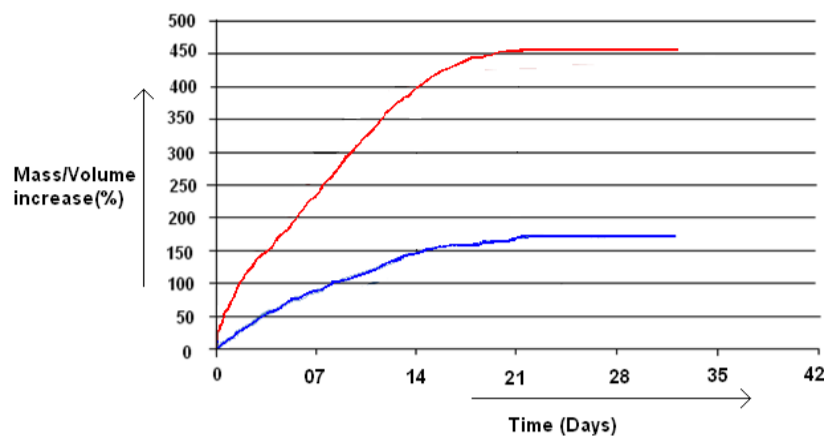
Chemical Compound	Classification	Remarks
Sulfuric acid 95%	-	
Sea water	+	
Benzyl alcohol	+/-	Resistant in case of accident for 72 h
Ethyl acetate	+	Accelerated expansion
o-Xylene	+	Accelerated expansion
m-Xylene	+	Accelerated expansion
Toluene	+	Accelerated expansion
Petrol	+	
Diesel	+	
Kerosene ,Jet fuel	+	
Mineral oil	+	
Liquid manure	+	
Ethylene glycol	+	
Ethanol	+	
Methanol	+	
Acetone	+	Strong accelerated expansion
Ammoniac solution 32%	+	
Sodium hydroxide solution	+	
2-Butoxyethanol sol.10%	+	
n-Hexane	+	
Acetic acid 96%	+	Accelerated expansion

FIBSEAL SW-A

Hydrophilic swellable joint sealing

Product # 114.145
Version no: 18.12.2025

Data
Tech



Red graph = swelling in neutral drinking water
Blue graph = swelling in 4% sea water

PACKAGING

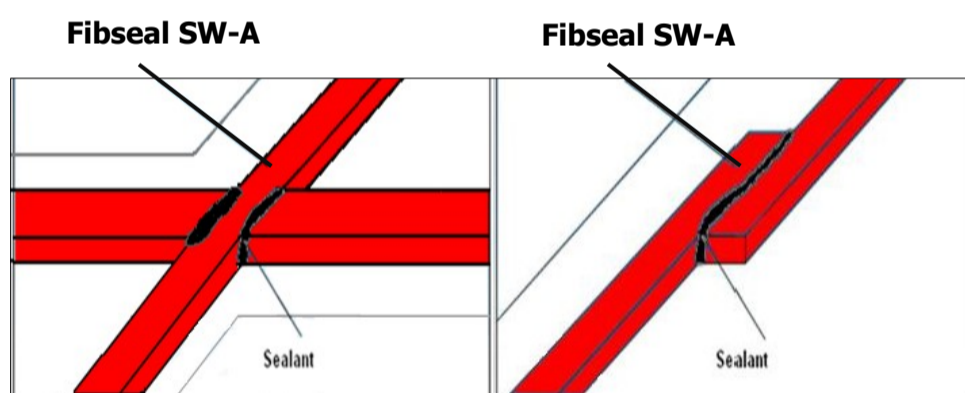
100 meters rolls.

STORAGE

Store in a cool and dry place in the original packing to prevent from moisture and premature swelling.

Sealing of construction joints

Fibseal SW-A Swell Bar profiles can be fixed with the help of appropriate sealant for lap over parts and joints

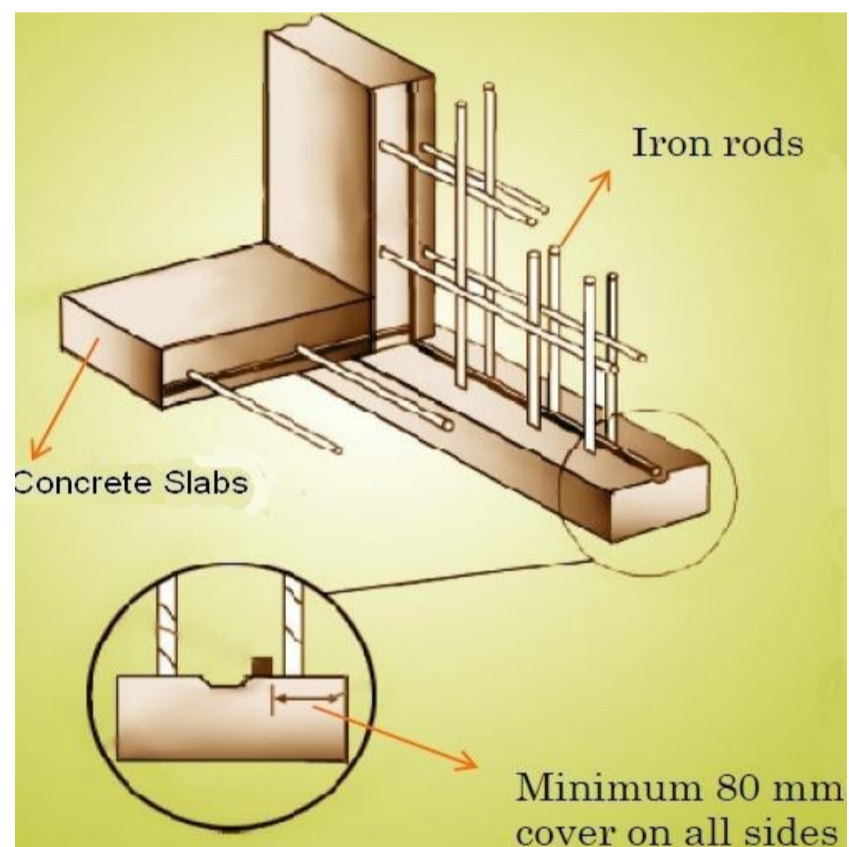


Safety precautions:-

- Use gloves to avoid rare allergic reactions.
- Do not reuse containers for storage of consumable item.
- There are no health hazards associated with in normal use.

Installation of Fibseal SW-A Swell Bar

- Surface should be clean and dry.
- Rubber can be bound to concrete surface by driving nails, hooks or adhesive.
- Typically the product is installed at the center and should have at least 80 mm cover.
- The coil ends should overlap at least 10 cm side by side.
- Keep away from moisture to avoid premature swelling.



HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

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NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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