

## FLEXIBLE ADHESIVE STRIP WATERSTOP

### Description

**Dr. Fixit Waterbar** is composed of synthetic butyl rubber, pigments & fillers, adhesion promoters & many additives. The preformed construction joint sealant is available in Swellable (SW20X20) & Non-swellable (NSW 25X25) grades. It is used to seal cold construction joints in RCC structure which are in constant touch with water which are susceptible to water leakages and in horizontal, vertical, inclined and curved profiles because it is highly adhesive, flexible, swellable, controlled expansion & withstanding ability to hydrostatic & hydraulic water pressure.

### Areas of Application

- Concrete Floor Slabs in Large Structures.
- Water tanks, swimming pools and sump tanks.
- Water treatment plants and sewerage treatment plants.
- Basement and cellar joints where concreting is stopped for a day and then continued.
- Joints in topmost roof slab (when concreting needs to be stopped at the end of the day and continued the next day).
- Tunnels and Dams.
- Around puddle flanges and Pipe penetrations.
- Box culverts and concrete irrigation channels
- Application on Concrete Pipe, Manholes, and Precast Box Sections.

### Features & Benefits

- Adhesion - Highly Adhesive, so bonds strongly to old or new concrete
- Flexibility - Designed to be highly flexible, so that it can be compressed easily by concrete.
- Labour savings - Can be laid by unskilled labour.
- Controlled expansion - Largest size cross-section SW-20 X 20 and NSW-25mm x 25mm compared to other swellable waterstops.
- Water pressure - Withstands water head of up to 60 meters (swallable) & 15 meters (non-swallowable).
- Cover protection - Concrete cover up 20 - 50 mm is sufficient to protect.
- Non-toxic -Registered safe for Potable water contact hence can be used in potable water tanks.
- Chemical resistant - Provides good chemical resistance property hence good for application on Concrete Pipe, Manholes, and Precast Box Sections.

### Method of Application

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#### HORIZONTAL JOINTS

- Clean the construction joint of loose mortar and dust.
  - Apply primer as directed (refer section on application of primer).Wait for about half an hour until the primer dries a little and becomes "sticky".
  - Clean hands of dust, oil or grease and dry it.
  - Unroll the Waterbar coil slowly and carefully on the joint without pulling and stretching it. Press it to ensure that it sticks to the concrete surface and hugs the profile of the concrete surface.
  - Remove the protective wrap and pour the concrete.
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### VERTICAL JOINTS

- Clean the construction joint of loose mortar and dust.
- Apply primer as directed (refer section on application of primer). Wait for about half an hour until the primer dries a little and becomes “sticky”.
- Clean hands of dust, oil or grease and dry it.
- Unroll the Waterbar coil slowly and carefully on the joint without pulling and stretching it. Press it to ensure that it sticks to the concrete surface and hugs the profile of the concrete surface.
- If primer cannot be applied for some reason, hang the Waterbar strip from the top by bending over about 150 mm of the waterbar horizontally on the top of the retaining wall. If this is not possible, tie the end of the waterbar with binding wire or string to any available projecting rebar and hang the waterbar vertically in position.
- Pour concrete.

### Important Notes

#### SWELLABLE & NONSWELLABLE WATERBAR APPLICATION

NSW 2525 - Nonswellable Waterbar & SW 2020 - Swellable Waterbar

- If horizontal joint is submerged in 10-20 mm of water, there is no need to worry. Primer need not be applied in this case. Dr. Fixit Waterbar NSW 2525 (Nonswellable) can be placed directly in the water. Continue concreting as usual.
- PLEASE NOTE THAT IN WET CONDITIONS, SW 2020 (swellable) should not be placed directly in water. SW 2020 gives best results when placed in dry conditions. IF IN AN EXTREME CASE, SW 2020 is to be placed on a moist construction joint, then concreting should be carried out as early as possible. PLEASE REFER TO YOUR NEAREST COMPANY TECHNICAL REPRESENTATIVE FOR THE BEST WAY OF USING SW 2020 in difficult situations.
- Primer is not an essential component for the waterproofing action of the Dr. Fixit Waterbar. It is used to maintain the Waterbar in the right position while concreting and preventing it from being dislodged. As long as the Waterbar is maintained in position without moving it, there is no problem even if the primer is not applied.

### Precautions & Limitations

- Positioning of waterstop in the joint is very important. Contact company representative for correct positioning assistance.
- Cleaning of joint of loose concrete, debris, dust and loose mortar is very important.
- ALWAYS CHECK the carton to make sure which Waterbar you are using Swellable or Nonswellable. Please note that instructions for laying Swellable and Nonswellable Waterbar are different.
- Do not stretch or pull the Dr. Fixit Waterbar and make it longer than its existing length. If you do this, then the effectiveness of the Waterbar will reduce drastically and it will not be able to seal the joint properly.
- Do not use Dr. Fixit waterbar in an expansion joint. Dr. Fixit Waterbar is designed to be used only in NON MOVING CONSTRUCTION JOINTS.
- In the case of Nonswellable waterbar (NSW 2525), after laying the waterbar, even if there is a delay in pouring concrete for more than a week, there is no problem. However, the joint has to be kept clean. No dust or debris should fall on the waterbar. Rain or curing water will have no detrimental effect on NSW 2525.
- In the case of Swellable waterbar (SW2020), after laying the waterbar, concreting is to be done as early as possible for maximum effectiveness. No dust or debris should fall on the waterbar. Rain or curing water will start the special swelling process of the waterbar. Hence concreting should be carried out as early as possible.
- Use of vibrator: Vibrator needle should not be pushed into the waterbar. Since Dr. Fixit Waterbar is flexible, it may get destroyed. Hence the tip of the vibrator should be kept about 200 mm away from the waterbar.
- Minimum cover of concrete for Swellable waterbar (2020) is 50 mm. Minimum cover of concrete for Nonswellable waterbar (2525) is 25 mm.
- Primer application should be done only with a 25 mm wide brush. Width of primer coating should be only 25 mm. Do not apply more than 25 mm wide.

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- When using more than one coil of Dr. Fixit waterbar, the ends have to be joined. The ends can be joined by overlapping about 50 mm. Make sure that the joint is pressed so that there is no gap under the place where it is joined together. It is also possible to lay it side by side for overlapping. However, in this case, the two ends have to be stuck together using the primer as adhesive.

### Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Specific Gravity	ASTM D 71	1.35-1.5
Hydrocarbon Content	ASTM D 4	47 percent min
Volatile Matter	ASTM D 6	1 % Max
Penetration, Cone 25°C, 150gm. 5 sec	ASTM D 217	35 - 45 (Swellable) 60 - 70 (Non-swellable)
Flash Point, °C		204
Application temp range, °C		-22 to + 52
Service Temp range, °C		-34 to + 82
Colour		Black
Strip Cross Sections		Swellable 20mmX20mm Non Swellable 25mmX25mm
Expansion		Percentage of Expansion
Days of Exposure		
2 days		25%
7 days		35%
14 days		50%
21 days		80%
30 days		100%
Chemical resistance 5% formaldehyde 5% hydrochloric Acid 5% formic acid 5% sodium hydroxide 5% sulfuric acid 5% hydrogen sulfide 5% potassium hydroxide	ASTM C990	Passes

### PACKING

Dr. Fixit Waterbar NSW 25X25      6 coils of 4 mtrs each in one carton  
 Dr. Fixit Waterbar SW 20X20      8 coils of 5 mtrs each in one carton

### Shelf Life & Storage

60 months in original packing. Carton should be stored in a cool, dry place.

### Warning

Dr. Fixit Waterbar SW2020 is not to be used in expansion joints or moving joints.

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### Health & Safety Precautions

- Eye contact: Flush with warm water for 15 minutes. If irritation persists, contact physician.
- Skin contact: wash contaminated area with soap and water.
- Ingestion: DO NOT INDUCE VOMITING, Contact a physician.
- Hygienic Practices: Wash hands with soap and water after working with this material. Practice good personal hygiene.

### Other Product Categories Available

DR. FIXIT has wide range of Waterproofing & Construction chemicals which includes,

- Waterproofing Products
- Repair Products
- Sealants
- Flooring Products
- Exterior Coating Products
- Tile Fixing Range
- Concrete Admixtures
- Grouts



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