

Swellseal R

Swellseal R is a hydro-swelling rubber strand for waterproofing pre-cast joints, joint repair, crack and fissure repair and for waterproofing pipe penetrations.



• field of application

- Repairing joints between offset pre-cast elements.
- Repair of joints, cracks and fissures.
- Waterproofing pipe penetrations.
- Waterproofing the joint between pre-cast concrete tubes.
- Installed in the knuckles of sheet piles for waterproofing the connection joint.

• advantages

- Hydro-swelling rubber strand with reversible expansion.
- Expansion up to 3V in contact with water.
- No sag when correctly installed around pipes and in vertical applications.
- The high expansion and excellent elasticity of Swellseal R allow for movements in the construction.
- The Swellseal R has a good all-round chemical resistance^(*) and can resist petroleum, mineral and vegetable oils and greases.
- Very good impact resistance.
- Swellseal R has a proven track record in constructions subjected to high hydrostatic water pressures.

• description

Swellseal R is a flexible hydro-swellingstrand. Swellseal R swells up to 3V in contact with water. Due to the large expansion capacity, Swellseal R is highly suitable for applications in contact with contaminated water and high hydrostatic water pressure in areas subjected to wet / dry cycles.

• application

1. Repair of joints, cracks and fissures

- Select the strand size of Swellseal R, one size larger than the dimension of the joint or crack.
- Stretch Swellseal R by pulling to decrease the diameter.
- Insert the Swellseal R strand and push the strand to the rear of the joint or crack with a wooden peg. Never use sharp or cutting tools to prevent damage to the Swellseal R.
- Finish the joint or crack with fast curing cement (Aquatek Plug) or repair mortar (Omnitek RM Fiber).

2. Installation in joints between pre-cast tubes

- Select the correct diameter of Swellseal R taking into consideration the maximum opening of the joint. Compression needs to be obtained.

• technical data/properties

- Apply the Swellseal R strand around the rear part of the tube.
- The Swellseal R strand can be glued to the surface with MS Fixer or Swellseal Adhesive (dry applications only).

3. Pipe penetrations

- Select the strand size of Swellseal R, one size larger than the dimension of the joint or crack.
- Stretch Swellseal R by pulling to decrease the diameter.
- Insert the Swellseal R strand and push the strand to the rear of the joint or crack with a wooden peg. Never use sharp or cutting tools to prevent damage to the Swellseal R.
- Finish the joint or crack with fast curing cement (Aquatek Plug) or repair mortar (Omnitek RM Fiber).

4. Between sheet pile knuckles

- Select the correct diameter of Swellseal Strand according the dimensions of the knuckle opening. The Swellseal R strand needs to slide fluidly into the knuckle.
- The connection between 2 pieces of Swellseal R strand can be made with a staple or by gluing with fast curing glue.

5. Precautions

- Installation prolonged contact with water can result in premature swelling of the strip, which should be avoided.

Important

Roll-ends of the strip are simply butted together. The strip needs to be in continuous contact with the joint surfaces.

Property	Value	Norm
Swellseal R		
Expansion	Min. 3V	ASTM D 471-75
Tensile strength	Approx. 1,5 N/mm ²	ASTM D 412
Elongation	Approx. 220 %	ASTM D 412
Hardness Shore A	Approx. 50	ASTM D 2240
Density	Approx. 1,2 kg/dm ³	ASTM D 471-75
Service temperature	-50°C to 75°C	

• appearance

Hydro-swelling rubber strand with smooth sides.
 Colour : black.
 Dimensions : 6 – 8 – 10 – 12 – 16 – 20 mm diameter.

• consumption

The necessary quantities depend on the length of the various joints, which need to be sealed. Roll ends are simply butted together to assure continuous seal.

• packaging

Swellseal R						
Diameter	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm
Packaging	50m roll	30m box		25m box		

• storage

Unlimited in a dry place in its original packaging.

• health & safety

For full information consult the relevant Material Safety Data Sheet. (*) For chemical resistances please contact your De Neef representative.