

PRODUCT CODE: 5754

SMARTCARE WATERBAR**PRODUCT DESCRIPTION**

Hydrophilic sealing bar made of sodium bentonite and butyl rubber for preventive sealing of construction joints and as a system component for bentonite mats. Mechanical fixation can be performed with SmartCare PU Hybrid Sealant for water swellable sealing profiles or by nailing.

AREAS OF APPLICATIONS

- Preventive sealing of construction joints in concrete and reinforced concrete construction
- System component for bentonite mats

FEATURES & BENEFITS

- Retains its shape after 3 wet and dry cycles
- Good resistance to a wide range of chemicals
- Seals against non-pressing and pressing ground water up to 6 Bars

PRODUCT DETAILS**CHEMICAL PARAMETERS**

Synthetic rubber blend, based on butyl rubber, sodium bentonite, and plasticizer

PHYSICAL PARAMETERS

- Colour: Black
- Packaging: One box contains 6 pieces (5m X 25mm X 20mm) each
- Shelf life: 5 years

TECHNICAL PARAMETERS

Parameters	Typical Values
Volume expansion in rain water	400%
Volume expansion in concrete water	150%
Density	1.43 g/cm ³
Swelling pressure when encapsulated	Approx. 1.8 N/mm ²
Resistance to hydrostatic pressure	Tested up to 4 Bar
Bending radius on the corners	50 mm
Temperature range	0° - 50°C

APPLICATION METHOD:

- Place SmartCare WaterBar on a smooth and dust free surface (concrete).
- Do not install SmartCare WaterBar during heavy rainfall, as it may result in swelling before the concrete has been poured on the sealing bar. Avoid all contact with water before concrete casting.
- SmartCare WaterBar is positioned between the inside and outside reinforcement.
- SmartCare WaterBar can be fixed by SmartCare Hybrid PU Sealant for water swellable sealing profiles or by gun nailing. For vertical applications, the use of a wire mesh is recommended. Mesh and profile are then fixed by gun nailing. No primer is required when applying SmartCare Hybrid PU Sealant on a clean non-porous concrete surface.
- Sealing bars that are damaged, already swollen, or of which the geometry has changed may not be installed.
- For mild salt water environment, in polluted water conditions and in contact with manure and slurry, we recommend SmartCare WaterBar RP.

SAFETY FEATURES & PRECAUTIONS:

- Advise to be careful with aromatic oils and fuels, with vegetable oils and strong aromatic solvents.
- This product is not designed or intended to be used as expansion joint sealant.
- Do not use the product with precast concrete where the product is not properly contained on all four sides.
- Do not allow the product to hydrate (swell) prior to placement of concrete.
- If the product is installed in an expanded condition, the effectiveness of the seal can be severely reduced.
- When used on pipes and other structural penetrations, the product should be cut to measured length and placed around the penetration with ends butted.
- It should not be installed in standing water or on frozen or icy surfaces.

STORAGE PRECAUTIONS : Store at ambient temperature and keep the cartons dry and closed.