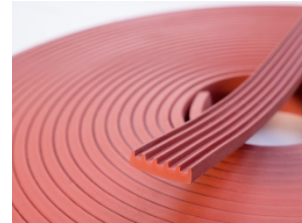


Technical data sheet

Cresco® GR Expanding Waterstop

Cresco® GR is a thermoplastic strip-applied, hydrophilic swellable construction cold joint waterstop. The profile has a bond-enhancing grooved surface and unique swelling properties.



Product

Description	Cresco® Grip (GR) is a hydrophilic SEBS based swell action waterstop with controlled and delayed expansion.
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Usage	Cresco® GR is used for the planned sealing of construction cold joints.
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Characteristics/ Advantages	<p>On contact with water, the swelling pressure increases slowly and thus ensures a tight seal of construction joints and cracks. Cresco® GR retains its shape during the swelling process. The maximum swelling capacity is limited to 300% of the initial mass, with an optimum cross section of 22 mm x 6 mm ensuring that there is no danger of concrete spalling due to excessive pressure. The unique compound compositions allows for temporary exposure to water without any swelling to occur. Cresco® GR is used to seal construction joints in in-situ-concrete against</p>
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- *Soil humidity*
- *Water without hydro-static pressure*
- *Water with hydro-static pressure up to 5 bars (tested up to 50 m pressure head)*

Areas of application are varied and include: wall/base connection joints, pipe penetrations, sealing of recesses, and anywhere where new and old concrete is joined. We recommend installing **Cresco® GR** using the Cresco® Adhesive. Optional installation with powder actuated fasteners is possible, but the use of a grid-rail is not necessary. Splices are formed as butt-joints or simply overlapped. The substrate must be clean, free of any bond inhibiting debris such as dust, grease and ponding water. Do not install over voids. Acts as a non-swellable waterstop for up to three days.

Test Reports (available upon request)

Approvals	Test report of the Material Testing Institute of the University of Munich (General Building Test Certificate, No.: P-51-13-0063)
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Product details

Form / Appearance Dimensions: 22 mm x 6 mm (\pm 1 mm)
 Weight: approx. 120 g/m

Packaging **Cresco[®] GR** 9 rolls à 15 m per box

Storage life minimum 36 months from manufacturing date, when stored in undamaged, unopened, original, sealed packaging, in cool and dry conditions at temperatures of +5°C to 25°C protect from UV radiation

Physical properties Swelling begins after 3 days reaching min. 200% at 15 days.
 Reversible expansion behaviour (returns to initial mass after drying).
 Cresco[®] GR is resistant to a great variety of different chemicals. (An excerpt of these chemicals is given in the attached chart)
 Cresco[®] GR is physiologically harmless and environmentally friendly.

Tensile strength	ASTM D412	3,0 MPa (435 psi)
Elongation %	ASTM D412	750
Hardness Shore A	ASTM D2240	50 +5/-10
Tear Resistance	DIN 53507	8 N/mm (50 lb/in)
Specific Gravity	ASTM D792	1.20 +/- 0,3

Information contained herein is based on our current knowledge and experience and does not release the consumer from their obligation to conduct their own comprehensive tests to prove suitability. This information is freely given and does not create a contractual legal relationship and/or subsidiary duties.

Resistance Table (Excerpt)

Testing liquid	Reference for chemical compound group	Resistance
Normal unleaded petrol/gasoline	Petrols	O
diesel	diesel and heavy fuel	O
engine oil	mineral oil	O
lubricants	mineral oil	O
toluol	Aromatic solvents	O
xylene	Aromatic solvents	O
methanol, 50 % in water	Alcohols	X
isopropanol, 50 % in water	Alcohols	X
N-methyl pyrrolidone	Nitrogenous solvent	X
ethylacetate	Aliphatic Ester	X
methylisobutylcetone	Aliphatic Ketones	X
formaldehyde, 35 % in water	Aldehyde	X
acetic acid, 10 % in water	Organic acid up to 10 %	X
sulphuric acid, 2 % in water	Mineral acid up to 2 %	X
sulphuric acid, 20 % in water	Mineral acid up to 20 %	X
caustic soda hydrated (pH11-12)	Equals pH in concrete	X
caustic soda hydrated, 2 % in water	Inorganic caustic solution	X
caustic soda hydrated, 20 % in water	Inorganic caustic solution up to 20 %	X
common salt, 20 % in water	Salt solutions up to 20 %	X
common salt, 5 % in water	Salt solutions	X
liquid manure	Fermentation acid mixture	X
sodium silicate	solvent	X

X resistant
O not resistant

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