

Technical Data Sheet

Cresco® GR Expanding Waterstop

Product Description:

Cresco® Grip (GR) is a hydrophilic SEBS based swell action waterstop with controlled and delayed expansion.

Cresco® GR is used for the planned sealing of construction cold joints. 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 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.

Application areas:

Cresco® GR is used to seal construction joints in in-situ-concrete against:

- Soil humidity
- Water without hydro-static pressure
- Water with hydro-static pressure up to 2 bars (tested up to 100 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.

A test report of the Material Testing Institute of the University of Munich confirms the above-mentioned material properties.

Technical Data:

Dimensions:	22 x 6 mm
Weight:	Approx. 120 g/m
Swelling capacity:	Swelling begins after 3 days reaching min. 200% at 15 days Reversible expansion behaviour (returns to initial mass after drying)
Storage life:	Unlimited
Chemical resistance:	Cresco® GR is resistant to a great variety of different chemicals. (An excerpt of these chemicals is given in the attached chart)

Physiology: Cresco® GR is physiologically harmless and environmentally friendly.

Chemical resistance:

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Resistance Table (Excerpt)		
Testing liquid	Reference for chemical compound group	Resistance
Normal unleaded petrol	Petrols	O
Diesel	Diesel and heavy fuel	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		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

X resistant
O not resistant

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.