BUILDING COMMON GROUND

MAX FRANK®

Technical Data Sheet

Cresco® GR expanding waterstop

Cresco® GR is a synthetic rubber-based expanding waterstop. The grooved profile improves the concrete bond and increases the sealing effect in accordance with the labyrinth principle.

Product

Description	**Cresco® GR** expanding waterstops on hydrophilic synthetic rubber-base react in water with a delayed and metered expansion effect. Thereby water is stored in the increased volume of the molecular structure of the tough but yet flexible polymers. Its grooved surface enables an excellent bondage of the product to the concrete. The swelling effect is limited to avoid concrete spalling.
Use	**Cresco® GR** expanding waterstops are used for construction joints. When in contact with water, an expansion pressure builds up slowly and effectively seals the working joint. The **Cresco® GR** expanding waterstop has excellent dimensional stability.
Characteristics/ benefits	Due to the dosed, delayed swelling and the beneficial cross section of 22 mm x 6 mm, **Cresco® GR** can be used in many ways. Suitable application fields are according to the WU guideline of the DafStB e.g.: ▪ Slab to wall connection ▪ Pipe liners ▪ Sealing recesses ▪ Anywhere where new and old concrete meet ▪ as well as the usage in the water transition zone The optimum fixing of **Cresco® GR** is achieved by bonding with the Cresco® fixing glue. Butt-joints can be carried out. The substrate must be clean, degreased and free of puddles. It is essential that voids beneath the sealing strip are avoided.

Test (copies on request)

Approval/ permission	Test certificate of the Technical University of Munich (abP-no.: P-51-13-0063), unlimited for load case 1 and use class A.

Product details

Design	Dimensions: 22 mm x 6 mm (± 1 mm) Weight: approx. 120 g/m
Packaging	**Cresco® GR** is supplied in cartons with 9 rolls x 15 running meters/roll.
Storage	36 months after the manufacturing date still packed in the original unopened and undamaged carton. To be stored at a dry place with temperatures between +5°C and +25°C. To be protected from UV light.
Physical characteristics	Swelling capacity: up to approx. 300% with delayed start of source Swelling behavior reversible Processing temperature: -10° to +50°C Temperature resistance: -40° to +75°C **Cresco® GR** expanding waterstops are resistant to a variety of different chemicals (see resistance table). **Cresco® GR** is physiologically safe and environmentally compatible.
Disclaimer / Notes:	**This product does not require a Safety Data Sheet (SDS) according to REACH as it is not a substance or mixture as defined in Chapter 2, Article 3 of REGULATION (EC) No 1907/2006 (REACH).** All technical data stated in this TDS are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Recommendations with regard to product application given in the present technical data sheet for practical assistance of product users are based on our experience and our present scientific and practical body of knowledge. These recommendations, however, are given without engagement and do not establish a contractual relationship or subsidiary duties. These recommendations do not relieve users of their liability and of their own responsibility to test, whether our product is adequate for the intended purpose of application. Please refer to the latest edition of this Technical Data Sheet on our web presence www.maxfrank.com

Technical Data Sheet

Cresco® BT expanding waterstop

Cresco® BT is a bentonite-based, reactive expanding waterstop which has a delayed and limited expansion effect.

Product

Description	**Cresco® BT** is a bentonite-based swelling tape that slowly builds up expansion pressure when exposed to water. Joints, cracks or small blowholes are filled by the expansion effect of the bentonite. The expansion effect is limited in order to avoid concrete spalling.
Use	**Cresco® BT** swelling tapes are used for the regular sealing of construction joints. A swelling pressure slowly builds up when the tape meets water, whereby the working joint is sealed. The **Cresco® BT** swelling tape has good dimensional stability.
Characteristics/ benefits	Due to the dosed and limited swelling, **Cresco® BT** can be used in many ways. Suitable application fields are according to the WU guideline of the DafStB e.g.: ▪ Slab to wall connection ▪ Pipe liners ▪ Sealing recesses ▪ Anywhere where new and old concrete meet ▪ as well as the usage in the water transition zone The optimal fixing of **Cresco® BT** is achieved by bonding with the Cresco® fixing glue. Fixing with fastening nails at intervals of approx. 30 cm, is only possible in conjunction with a fixing mesh. The substrate must be clean and degreased. It is essential that voids beneath the sealing strip are avoided.

Test (copies on request)

Approval/ permission	Test certificate of the Technical University of Munich (abP-no.: P-51-07-0150), unlimited for load case 1 and use class A.

Product details

Design	Dimensions: 20 mm x 25 mm (± 1 mm) Weight: 0.63 kg/m Density: 1.4 kg/dm³ Material: high quality sodium bentonite and butyl rubber
Packaging	**Cresco® BT** is supplied in cartons of 4 rolls x 5 running meters/roll.
Storage	36 months after the manufacturing date still packed in the original unopened and undamaged carton. To be stored at a dry place with temperatures between +5°C and +25°C and protected from UV light.
Physical characteristics	Expansion potential: up to approx. 350 % Swelling behavior reversible Processing temperature: -10° to +50°C Temperature resistance: -40° to +75°C **Cresco® BT** expanding waterstops are resistant to a variety of different chemicals. (see resistance table) **Cresco® BT** is physiologically safe and environmentally compatible.
Disclaimer / Notes:	**This product does not require a Safety Data Sheet (SDS) according to REACH as it is not a substance or mixture as defined in Chapter 2, Article 3 of REGULATION (EC) No 1907/2006 (REACH).** All technical data stated in this TDS are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Recommendations with regard to product application given in the present technical data sheet for practical assistance of product users are based on our experience and our present scientific and practical body of knowledge. These recommendations, however, are given without engagement and do not establish a contractual relationship or subsidiary duties. These recommendations do not relieve users of their liability and of their own responsibility to test, whether our product is adequate for the intended purpose of application. Please refer to the latest edition of this Technical Data Sheet on our web presence www.maxfrank.com