

# General Building Test Certificate

## Cresco<sup>®</sup> GR

Expanding waterstop for sealing of construction joints in impermeable concrete with high resistance against penetration of water in areas in contact with the ground

**P-51-13-0063 | 07.05.2024**

issued by: TUM, MPA Bau, Munich



Technical University of Munich

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## General Building Test Certificate

**No.: P-51-13-0063**

**Approved Testing Centre:** MPA BAU TU Munich (BAY01)

Bitumen and Sealing Materials  
Group

Date  
07.05.2024

Our Reference  
AF/Fi

### Subject:

#### “Cresco GR Swelling Tape“

Expanding waterstop for the sealing of construction joints in impermeable concrete or other structures with high resistance against the penetration of water in areas in contact with the ground, which cannot be classified as the C,2.10.2 and C.10.3 products in chapter C2 according to MVV TB, Part C3, No. C 3.30

**Applicant:** Max Frank GmbH & Co. KG, Leiblfing

**Date of issue** 07.05.2014

**Renewed until:** 07.05.2029

This General Building Test  
Certificate comprises 6 pages

## A General Provisions

- (1) This General Building Test Certificate verifies that the construction product is usable in compliance with the State Building Regulations.
- (2) The General Building Test Certificate does not replace the Approvals, Consents and Certifications prescribed by law for the realisation of construction projects.
- (3) The General Building Test Certificate is issued without prejudice to the rights of third parties, in particular Private Property Rights.
- (4) Notwithstanding further regulations in the Special Provisions, producers and distributors of the construction product must provide its users with copies of the General Building Test Certificate and inform them that the certificate must be available at the site location. Upon request, copies of the certificate shall be supplied to the authorities involved.
- (5) The General Building Test Certificate may only be reproduced in full. Publication of extracts requires the consent of the Centre for Materials Testing, Building Materials Division, of Munich Technical University. Advertising material texts and drawings must not be contradictory to the General Building Test Certificate. Translations of the certificate must contain the notice “Translation of the original German version not checked by the Centre for Materials Testing, Building Materials Division, of Munich Technical University.“.
- (6) This General Building Test Certificate is issued subject to revocation. The provisions of the certificate may be supplemented or amended at a later date, particularly if new technical knowledge so requires.

## B Special Provisions

### 1. Subject and scope of application

#### 1.1 Subject

This General Building Test Certificate is applicable to the manufacture and use of the expanding waterstop “Cresco GR Swelling Tape“ from Max Frank, Leiblfing, as a sealant for joints in concrete and other impermeable structures with high resistance against the penetration of water in areas in contact with the ground, which cannot be classified as the C 2.10.2 and C 2.10.3 products in Chapter C 2, in accordance with the Model Administrative Rules on Technical Building Regulations (MVV TB), 2023/1 edition, Part C3, No. C 3.30.

The expanding waterstop “Cresco GR Swelling Tape“ is a synthetic rubber based product manufactured in a rectangular section with dimensions of 22.2 mm wide and 4.0 or 6.1 mm thick including the ribs (“serrated“ top surface, profiled). The ribs are spaced at 2.7 mm with a 1.3 mm thickness over the width of the waterstop (6 ribs including bordering ribs).

#### 1.2 Scope of application

The expanding waterstop “Cresco GR Swelling Tape“ may be used for the sealing of construction joints in concrete structures with high resistance against the penetration of water to a maximum opening width of 0.25 mm against:

- Ground water and percolating water not under hydrostatic pressure,
- Periodically accumulating seepage water and water under hydrostatic pressure to a maximum of 2.0 bar (20 m immersion depth)

The expanding waterstop “Cresco GR Swelling Tape“ is also suitable for areas with fluctuating water levels.

The sealant meets the requirements of service class A for Exposure Classes 1 and 2 under the WU-Richtlinie<sup>1</sup>.

Its use is conditional upon compliance with the Application Guidelines and Installation Requirements in Section 5.

## **2. Provisions for the Construction Product**

### **2.1 Characteristics and Composition**

Use of the product has been verified in compliance with the Testing Principles for the Award of General Building Test Certificates for Joint Sealants in Concrete Structures which have High Resistance against the Penetration of Water and are in Contact with Soil, PG FBB Part 1: Seals for Construction Joints and Controlled Crack Joints, October 2012.

The PG FBB Part 1, October 2012, applied correspond in essence to the PG FBB Part 1 of May 2020.

The results are presented in Test Report 51-13-0063 dated 14.04.2014.

The product must correspond to the material tested for usability. It must possess the technical characteristics stated in the Test Report.

The joint sealant meets the requirements for Building Materials in Material Class B2 under DIN 4102-1, Part 1 (normally flammable).

### **2.2 Manufacture, Packaging, Transport, Storage and Labelling**

The product “Cresco GR Swelling Tape“ is manufactured at the Leiblfing facility. Changes to its composition or a change of delivery facility should be reported to the Testing Centre immediately.

Packaging, transport and storage shall comply with the manufacturer’s specifications.

The information on the packs detailing requirements under other areas of law must be followed.

The manufacturer’s specifications on the storage period must be followed. Components belonging together must be clearly labelled as part of the system.

### **2.3 Mark of Conformity**

The Construction Product shall be labelled by the manufacturer with the Mark of Conformity (Ü-Zeichen) under the Mark of Conformity Regulations of the States. It may only be so labelled if the conditions of Section 3, Certificate of Conformity, are met.

The Mark of Conformity shall be inserted on the Product Packaging or, if not possible, on the Delivery or Despatch Note, together with the specified information:

- Name of Manufacturer
- General Building Test Certificate Number

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<sup>1</sup>DafStb – Richtlinie Wasserundurchlässige Bauwerke aus Beton (WU-Richtlinie)

The following information shall appear on the Product Packaging or Despatch Note:

- Product Name
- Batch Number
- Use
- Reference to the relevant Application Regulations
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### 3 Proof of Conformity

#### 3.1 General

The Conformity of the Construction Product with the requirements of this General Building Test Certificate shall be certified by a Declaration of Conformity by the Manufacturer on the basis of a Factory Production Control System and initial testing of the Construction Product before Certification of Conformity (initial test) by a Building Authority Approved Testing Centre.

#### 3.2 Initial testing of the Construction Product by an Approved Testing Centre

Initial testing of the product may be omitted for the Max Frank manufacturing facility in Leiblfing, because the samples for testing are taken from regular production at the facility in connection with the Usability Certification.

If the production conditions change, initial testing is to be reinstated.

#### 3.3 Factory Production Control

A Factory Production Control System shall be set up and implemented at the Manufacturing Facility. Factory Production Control means the Continuous Monitoring of Production undertaken by the Manufacturer to ensure that the Construction Product Manufactured complies with the Provisions of the General Building Test Certificate.

The Factory Production Control System is defined on the basis of DIN 18200 and the Test Principles for Joint Sealants, PG FBB, Part 1, May 2020 edition, and Manufacturing Information:

**Table 1:** Type and frequency of tests to be performed for the Factory Production Controls

Characteristics	Test Conditions	Requirements	Frequency
<b>“Cresco GR Swelling Tape”</b>			
Control of raw materials	Manufacturer’s declaration or suitable tests	No indication of changes	Each delivery batch
Free expansion	In tap water	Test value M.% ± 10%	Each batch
Retained sample	-	-	Each batch
Roll length	-	Test value with tolerances	Each batch
Thickness	-	Test value with tolerances	Each batch
Width Height	-	Test value with tolerances Test value with tolerances	Each batch

The above Test Criteria must be adhered to. The results of the Factory Production Controls shall be recorded and analysed. The records shall contain the following minimum information:

- Designation of the Construction Product
- Type of Control
- Date of Manufacture and Inspection of the Construction Product
- Result of the Controls and, if applicable, comparison with the requirements
- Signature of the person responsible for the Factory Production Control

The Factory Production Control records shall be retained for a minimum of five years. Upon request, they shall be submitted to the Testing Centre in the event of changes to or renewals of the General Building Test Certificate, and to the highest building supervision authority.

If the inspection result is unsatisfactory, the Manufacturer shall take the necessary action without delay to correct the deficiency and reject the products affected. The Factory Production Control System shall ensure that products that do not meet the requirements are not labelled with the Mark of Conformity and that Confusion with Compliant Products is impossible. The relevant inspection shall be repeated without delay after correction of the deficiency – if technically possible and necessary for proof of remediation.

#### **4 Design and Dimensioning**

Not applicable

#### **5 Application Provisions**

The Manufacturer's Application Instructions apply to installation of the joint sealant. The instructions and this General Building Test Certificate for the joint sealant must be available at the point of installation.

The expanding waterstop "Cresco GR Swelling Tape" should be bonded to the concrete surface as centrally as possible in the construction/butt joint, using the "Cresco Assembly Adhesive". The ends may be either butt jointed or lapped by about 10 cm. Minimum concrete cover of 8 cm shall be maintained. The waterstop must not be exposed to water for a lengthy period and swollen tapes must be replaced before concreting.

#### **6 Legal Basis**

This General Building Test Certificate is renewed under Article 19 of the State of Bavaria Building Regulations in conjunction with MVV TB No. C 3.30.

## 7 Legal Remedies

Legal action may be taken against this decision within one month of its notification at Straubing Register Court, KG: HRA 1341 / GmbH: HRB 9032, in writing or for recording by the Clerk of the Court at the Court Office. The Action must name the Complainant, the Respondent (Free State of Bavaria) and the subject of the Claim and should contain a Specific Application. The facts and evidence justifying the Action should be stated and the original or a copy of the contested decision should be attached. Copies of the Action and all the written submissions should be enclosed for the other parties.

Information on legal remedies:

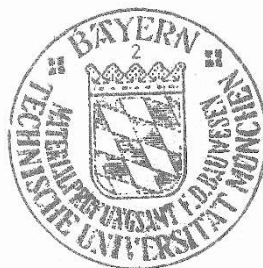
- The Appeal Proceedings in Building Regulation matters were abolished in Bavaria by the Law Amending the Code of Administrative Procedure of 22 June 2007 (Gaz. P. 390). There is no facility to appeal against this decision.
- Filing of an Action electronically (e.g. by email) is not permitted.
- Under Federal Law, since 1 July 2004 an advance on fees has been payable in litigation proceedings at Administrative Courts.

MATERIALS TESTING CENTRE FOR CONSTRUCTION  
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