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Staatssekretariat für
Wirtschaft SECO
SAS Schweizerische
Akkreditierungsstelle
ISO 17025 STS 411



April 18, 2018

TEST REPORT

IST Reference: 8953A /TH/gl
Subject: Testing Frost Resistance acc. EN 772-18:2011-07

1. Product Tested

Name of product	CONIPUR M
Description	Granular texture EPDM granules, grain size 1-3.5 mm
4 mm	Full Depth PUR Coating, red-brown w/ broadcast CONIPUR EPDM granules
5 mm	Full Depth PUR Coating, red-brown w/ pigmented CONIPUR magic EPDM granules embedded
5 mm	Full Depth PUR Coating, pigmented w/ pigmented CONIPUR magic EPDM granules embedded

2. Sampling

Date February 23, 2018
by Conica AG
Amount 4 samples 50 x 50 cm
IST Sample No. 8409

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Acc. SN EN ISO 17025:2005 accredited by Swiss Accreditation Authority (SAS), a department of Swiss Federal Ministry of Commerce (SECO). The accreditation is valid for the test procedures listed in the Accreditation Certificate (STS411).

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Akkreditiert gemäss ISO 17025 für:
DIN 18032-2; 18035-6+7; EN 1177;
EN 14904+14877+15330, IAAF; FIFA

3. Test Standard

EN 772-18:2011

Methods of test for masonry units - Part 18: Determination of freeze-thaw resistance.

4. Test Equipment

Freezer with a net space of min. 5 x size of sample. Constant Freezing rate of -15°C within 3 to 5 h. This temperature need to be kept for minimum 2 h.

5. Test Procedure

Each sample was preconditioned in water at a temperature of $20 \pm 5^{\circ}\text{C}$. The sample should be floated by the water for about $\frac{1}{4}$ of the sample height. After 1 h the sample were dipped into the water until $\frac{1}{2}$ of its height, after another hour until $\frac{3}{4}$. After 24 h the samples were dipped completely into the water. After 48 h the samples were obtained and the water surceased from the form. The position of the samples remains unaltered at beginning of the frost proof.

The samples remain for 2 h in the freezer with -15°C . After this procedure the samples were defrosted in water of $20 \pm 5^{\circ}\text{C}$ for a minimum of 1 h. The procedure will be repeated for 20 cycles.

After 20 cycles the damages – if any – of the material and the difference of the tensile properties of the retained samples in respect to the frosted samples will be reported.

6. Test Result

No damages of material after 20 frost cycles

The result was determined by macroscopic exam

Parameter	Deviation
Tensile Strength - decrease after testing	3.9 %
Elongation of break - no change after testing	0.0 %
Change in mass - change after testing	0.1 %

The results reported herein reflect the performance of the described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently.

K. Glasze-Kolitzus
Qualitäts-Management



Thomas Hartmann
Laborleiter