

**Test report no.:** 96556/11-V

**Customer:** Tremco illbruck GmbH & Co. KG  
Von-der-Wettern-Straße 27  
51149 Köln  
GERMANY

**Order:** Test of one-component hybrid sealant  
**illbruck SP525** in accordance with section 4.3.2 Sealants for  
façade elements for use in cold climatic zones (Requirements  
and test procedures for non-structural sealants for façade  
elements) of EN 15651-1  
Sealants for non-structural use in joints in buildings and  
pedestrian walkways - Part 1: Sealants for façade elements

**Email dated:** 2011-06-07      **Ref.:** Mr Michael Hansen

**Sample received:** 2011-06-09

**Test period:** 2011-06-14 to 2011-08-10

The test report comprises 4 pages.

Würzburg, 2011-08-16

Sc/stel  
*tc*

i. V.

  
Dr. Anton Zahn

International akkreditiert

SKZ - TeConA GmbH

i. A.

  
Dipl.-Ing. Benedikt Göbel

The original language of the report is German. In case of doubt, the German version is obligatory.

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## 1. Order

Company Tremco illbruck GmbH & Co. KG, Von-der-Wettern-Straße 27, 51149 Köln, GERMANY, instructed SKZ - TeConA GmbH by email of 7 June 2011 to test the one-component hybrid sealant **illbruck SP525** in accordance with section 4.3.2 Sealants for façade elements for use in cold climatic zones (Requirements and test procedures for non-structural sealants for façade elements) of EN 15651-1 Sealants for non-structural use in joints in buildings and pedestrian walkways - Part 1: Sealants for façade elements.

## 2. Test material

On 9 June 2011 SKZ - TeConA GmbH received the following samples for testing:

8 film bags	one-component hybrid sealant
designation:	<b>illbruck SP525</b>
basis:	hybrid basis
batch:	04/11-1781
colour:	pebble grey

500 ml one-component primer for absorbent substrates	
designation:	<b>Tremco Primer AT140</b>
batch:	11/10-4858

## 3. Test procedure

The test of the one-component hybrid sealant **illbruck SP525** was performed in accordance with section 4.3.2 Sealants for façade elements for use in cold climatic zones (Requirements and test procedures for non-structural sealants for façade elements) of EN 15651-1 Sealants for non-structural use in joints in buildings and pedestrian walkways - Part 1: Sealants for façade elements.

Usually we carry out tests according to standards for which we have an accreditation. The list of all standards for which we are accredited is shown on the homepage at [www.skz.de](http://www.skz.de).

### Production and pre-treatment of test specimens

For the tests, specimens with the joint dimensions 12 x 12 x 50 mm were produced according to ISO 8340. As substrate Mortar M1 in accordance with ISO 13640 was used as contact material. The contact surfaces were pre-treated with primer **Tremco Primer AT140**. The drying time of the primer up to the application of the sealant in the joints was 90 minutes.

The preconditioning of the test specimens was carried out according to ISO 8340, method B.

Method A: 28 days at  $(23 \pm 2) ^\circ\text{C}$  and  $(50 \pm 5) \%$  rel. humidity

Method B: The samples shall be conditioned according to method A and subjected three times to the following storage cycle:

- a) 3 days in the oven at  $(70 \pm 2) ^\circ\text{C}$
- b) 1 day in distilled water at  $(23 \pm 2) ^\circ\text{C}$
- c) 2 days in the oven at  $(70 \pm 2) ^\circ\text{C}$
- d) 1 day in distilled water at  $(23 \pm 2) ^\circ\text{C}$

### 3.1 Tensile properties (secant tensile modulus) at $-30 ^\circ\text{C}$

The test was carried out according to ISO 8339. The secant tensile modulus was determined on test specimens which were extended by 100 % of the original width at a temperature of  $-30 ^\circ\text{C}$ .

Requirement:

Secant tensile modulus at  $-30 ^\circ\text{C}$ :  $\leq 0.9 \text{ N/mm}^2$

### 3.2 Tensile properties at maintained extension at $-30 ^\circ\text{C}$

The test was carried out according to DIN EN ISO 8340 with an extension of 100 % at a temperature of  $-30 ^\circ\text{C}$ .

Requirement:

After 24 h neither an adhesive nor a cohesive failure shall occur on the test specimens which are extended by 100 %.

## 4. Test results

### 4.1 Tensile properties (secant tensile modulus) at $-30 ^\circ\text{C}$

extension [%]	temperature [ $^\circ\text{C}$ ]	secant tensile modulus [ $\text{N/mm}^2$ ]
100	-30	0.5

### 4.2 Tensile properties at maintained extension at $-30 ^\circ\text{C}$

At  $-30 ^\circ\text{C}$  neither adhesive nor cohesive failure occurred on the test specimens.

## 5. Assessment of the results

The one-component hybrid sealant **illbruck SP525** in conjunction with Mortar M1 as substrate and with **Tremco Primer AT140** meets the requirements for the application as sealant for façade elements in cold climatic zones according to section 4.3.2 Sealants for façade elements for use in cold climatic zones (Requirements and test procedures for non-structural sealants for façade elements) of EN 15651-1 Sealants for non-structural use in joints in buildings and pedestrian walkways - Part 1: Sealants for façade elements.