

## Fire Protection Silicone ZZ 345

### Technical data sheet

<b>Trade name:</b>	Fire Protection Silicone ZZ 345 ZZ-Fire protection silicone NE
<b>Description:</b>	Elastic RTV-1 silicone (room-temperature cross-linkage, 1-component, oxime system) with halogen-free intumescent fire retardants.
<b>Implementation areas:</b>	Linear joint seals between rigid building components up to fire resistance class EI180. Cable penetration seal for rigid walls, rigid ceilings and flexible walls up to fire resistance class EI120. Through penetration firestop system for electrical cables, telecommunication cables, and optical fibre cables.
<b>Approvals / certificates:</b>	<ul style="list-style-type: none"><li>• European Technical Approval ETA-12/0118, OIB</li><li>• European Technical Approval ETA-13/0123, OIB</li><li>• EC Certificate of Conformity 0761-CPD-0302</li><li>• EC Certificate of Conformity 0761-CPD-0256</li><li>• Proof of suitability according to DIN EN ISO 11600-F20LM</li><li>• Fire protection application no. 24894 (cables), VKF</li><li>• Fire protection application no. 24630 (joints), VKF</li></ul>
<b>Colour:</b>	Cement grey
<b>Content:</b>	310 ml cartridge, 580 ml tubular bag
<b>Transport / storage:</b>	Dry and only in the original packaging
<b>Storage temperature:</b>	5 °C to 30 °C
<b>Storage stability:</b>	12 months at 23 °C/ 50 % rel. humidity, See imprint on container for expiry date
<b>Application temperature:</b>	5 °C to 30 °C
<b>Skin-forming time:</b>	approx. 10 minutes at 23 °C and 50 % rel. humidity
<b>Hardening:</b>	ca. 2 mm in 24 hours at 23 °C / 50 % rel. humidity
<b>Viscosity:</b>	Pasty, non-sag
<b>Bulk density:</b>	$\rho = 1000 \text{ kg/m}^3$ to $1300 \text{ kg/m}^3$
<b>Safety notices:</b>	Please observe the safety data sheet.

# Fire Protection Silicone ZZ 345

## Behaviour in the event of fire:

**Material class** DIN 4102-B1 in accordance with AbP P-BWU03-I-16.5.352

**Classification of the fire protection behaviour in accordance with DIN EN 13501-1:** Class E

**Expansion pressure:** No expansion pressure measurable

**Foaming factor:** 1.5x to 3x  
 Tested on samples at 450°C for more than 25 minutes without superimposed load. The foaming factor is a laboratory characteristic value. The foaming behaviour in installed status depends on the existing boundary conditions.

## Physical construction material / product characteristics

The following specifications do not represent guaranteed product characteristics. They must, therefore, be regarded exclusively as information intended to serve as guideline values.

**Air permeability:** No air passage measurable up to  $\Delta$  600 Pa  
 Test standard: EN 1026  
 (test specimen dimensions 100 x 100 x 150 [mm], 2 x 15 mm fill on both sides, tested without penetrating elements)

**Resistance to static differential pressure:**  $P_{max} = 9800$  Pa  
 Test standard: In accordance with EN 12211  
 (test specimen dimensions 100 x 100 x 150 [mm], 2 x 15 mm fill on both sides, tested without penetrating elements)

**Surface resistance:**  $R_0 = \gg 10^{12} \Omega$   
 Test standards: DIN EN 60079-0 (VDE 0170-1):2013-04 Section 7.4 including application of note 2 of Section 7.4.2, IEC 60079-0:2011 and modified + Cor.:2012, EN 60079-0:2012, EN 80079-36 and TRGS 727:2016-07-29

### Approved in potentially explosive zones:

	0	1	2	20	21	22
earthed	IIA	IIA, IIB	IIA, IIB	✓	✓	✓
unearthed	x	IIA	IIA	✓	✓	✓

## Fire Protection Silicone ZZ 345

### Hygiene, health and environmental protection

**VOC emission class** **A+** in accordance with French decree no. 2011-321  
Test standards: ISO 16000-3, ISO 16000-6, ISO 16000-9, ISO 16000-11, ISO 16017-1

### Testing the fire protection properties under environmental influences

#### **Thermal stress:**

Continuous contact or ambient temperature: -20 °C to 70 °C

#### **Permissible ambient conditions:**

In accordance with ETAG Use category X  
026-2 or ETAG 026-3: Product for use in outdoor areas, as well as indoor areas, also in areas with exposure to weather.

#### **Influence of coating materials and chemicals:**

Do not use additional paint, coatings, etc. with ZZ 345 fire protection silicone.

All the information in this leaflet is based on current technical knowledge and experience. Details on processing and application must be checked on a project-by-project basis due to the variety of possible influences. If the application for which our products are used is subject to a government agency approval obligation, then the user is responsible for obtaining this approval. We would be pleased to respond to any enquires you might have. The information in this document and declarations of ZAPP-ZIMMERMANN GmbH in conjunction with this document do not constitute any assumption of a guarantee. Guarantee declarations require the separate, express written declaration of ZAPP-ZIMMERMANN GmbH. The conditions specified in this data sheet represent the characteristics of the delivery object, they do not represent any specific values. Specific values must be separately determined on a case-by-case basis. We reserve the right to adapt the product to technical progress and to new developments. In all other aspects we refer to our general terms and conditions.