

Technical data sheet

Trade name: **ZZ**[®] 385 Fire Protection Sealant

Description: Water-based polyacrylic system stored in a cartridge, with halo-

gen-free flame retardants; intumescent.

Implementation areas: System component consisting of cable and pipe penetration

seals made of fire protection foam ZZ 18-A. For smoke gas tight

sealing of joints and spandrels.

Product group: IN16 – Interior Seals

EX12 - Exterior Seals

Certificates: • Classification report no. 15/0301-1, Currenta

Requirement set: R22, R23 according to EN 45545-2

Hazard level: HL1, HL2, HL3

Colour: Red-brown

Content: 310 ml

Transport / storage: Dry and only in the original packaging

Storage temperature: 5 °C to 30 °C

Storage stability: 12 months at 23 °C/ 50 % rel. humidity,

See imprint on cartridge for expiry date

Application temperature: 10 °C to 30 °C, recommended: 20 °C to 25 °C

Skin-forming time: approx. 10 minutes at 23 °C and 50 % rel. humidity

Viscosity: Pasty, non-sag at 23 °C

Bulk density (material has

fully reacted):

 $\rho = 1300 \text{ kg/m}^3 \text{ to } 1450 \text{ kg/m}^3$

Safety notices: Please observe the safety data sheet.



Behaviour in the event of fire

Classification of the fire behaviour according to

DIN EN 13501-1:

Class E

Expansion pressure: No expansion pressure measurable

Foaming factor: 7.6x to 13.6x

Tested on samples at 450 °C for more than 25 minutes with superimposed load. The foaming factor is a laboratory characteristic value. The foaming behaviour in installed status depends on

the existing boundary conditions.

Smoke generation according to EN ISO 5659-

2:

 $D_s \max (-) = 68$

Burning behaviour (Oxygen index)

according to ISO 4589-2:

OI = 78.7 %

Conventional index of toxicity according to NF X 70-100-1 /-2:

 $CIT_{NLP} = 0.29$

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.

Surface resistance: $R_0 = 2 \text{ bis } 4 \times 10^6 \Omega$

Test standards: DIN IEC 60167,

BGR 132:2003 (2.6) satisfies TRGS 727:2016



Hygiene, health and environmental protection

Indoor air hygiene Requirements of AgBB Scheme 2015 are fulfilled

Test standards: prEN 16516, ISO 16000-3, ISO 16000-6,

ISO 16000-9

Test lab: eco-INSTITUT Germany GmbH, Cologne

Date: 23/08/2017

	Result	Requirement	Requirements fulfilled
Emission rating			
Measurement after 3 days			
TVOC (C6 – C16)	0.052 mg/m ³	≤ 10 mg/m³	✓
Carcinogens (EU Cat. 1A and 1B)	< 0.001 mg/m ³	≤ 0.01 mg/m³	✓
Measurement after 28 days			
TVOC (C6 – C16)	0.017 mg/m ³	≤ 1 mg/m³	✓
Σ SVOC (C16-C22)	< 0.005 mg/m ³	≤ 0.1 mg/m³	✓
R (dimensionless)	0.06	≤ 1	✓
VOC without NIK	< 0.005 mg/m ³	≤ 0.1 mg/m³	√
Carcinogens	< 0.001 mg/m³	≤ 0.001 mg/m³	✓

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

MicrobialInert / fungistatic / bacteriostaticmetabolisation:Test standard: DIN EN ISO 846



Other product characteristics

Influence of coating materials and chemicals

The following paints and occasional, brief influence of chemicals do not cause any change in the technical fire protection properties:

Coating materials: Dispersion paint, alkyd resin paint, polyurethane acrylic lacguer,

epoxy resin lacquer

Solvent/oil: Trichloroethylene, xylene, acetone, white spirit, butyl acetate, buta-

nol, domestic fuel oil

Gaseous chemicals: Brief storage over concentrated ammonia solution

Comment: Environmental conditions with high humidity levels and/or some coating materials

and chemicals can cause minor lightening of the colour.

Contact with metals and plastics

The surface consistency of aluminium, stainless steel, galvanised steel and plastics made of polyethylene and polyvinyl chloride is not negatively affected upon contact with "Fire Protection Sealant ZZ 385".

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 Karl Zimmermann GmbH in conjunction with this document do not constitute any assumption of a guarantee. Guarantee declarations require the separate, express written declaration of Karl 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.