

# TEROSTAT-PC FR

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## 1. DESCRIPTION AND USE

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Terostat-PC FR is a sprayable- and gunable, one component sealant, coating and adhesive, based on silane modified polymer ( MS<sup>®</sup> -Polymer ), which cures by reaction with moisture to a soft elastic product.

Terostat-PC FR is free of solvents, isocyanates, silicones and PVC, and is odourless. It is compatible with suitable paint systems and coatings.

The coating demonstrates good weathering, UV and mechanical resistance, as well as excellent chemical resistance.

Terostat-PC FR is not sensitive to temperature changes, and has excellent crack-bridging capacities.

Terostat-PC FR is a flame retardant sealant and coating.

Terostat-PC FR is used as a coating, adhesive and sealant in Pittsburgh Coming FOAMGLAS<sup>®</sup> insulation systems barrier, providing a weather protection, sealing and water vapour barrier.

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## 2. APPLICATION

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### 2.1. Surface preparation

The substrates must be clean, dry oil and grease free.

### 2.2. Product preparation

Low material temperatures of the sealant will lead to an increase of viscosity, resulting in a lower extrusion rate. This can be avoided by bringing the sealant up to room temperature prior to application. If substrates are too cold temperatures may fall below the dew point causing condensation. This can be avoided by bringing the substrates up to room temperature.

### 2.3. Application method

**2.3.1** Foamglas<sup>®</sup>-Terostat elements will be supplied. Foamglas<sup>®</sup> elements covered with a factory applied layer of extruded Terostat-PC FR).

### 2.3.2 As a coating

Apply a coat of 3 to 4 kg/m<sup>2</sup>

It may be applied by trowel cut of drums or by cartridge. The coating is smoothed using trowel, spatula or gloves immediately after application.

Use of a smoothing agent will avoid drag marks on the surface.

### 2.3.3 As a joint sealant

- Joints should be rubbed before application of sealant

- Best applied by extrusion gun or from cartridges. Trowel or knife should be used for restricted areas.

- Sealant to be applied to one or both surfaces; press firmly in order to obtain a complete seal.

- Smooth squeezed out sealant flush with the Terostat-PC FR coating, giving a perfect seal.

### 2.4. Cleaning the tools

For cleaning application equipment contaminated with uncured Terostat-PC FR we recommend the use of Cleaner + Diluent A, D or FL.

### 2.5. Limitations

Avoid application at freezing conditions

### 2.6. Cautions

Avoid eye contact

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## 3. AVAILABILITY AND STORAGE

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### 3.1. Availability

30kg drums, 0.465kg cartridges

### 3.2. Storage

Frost –sensitive: no

Recommended storage temperature: 10°C to 25°C

Shelf-life: 12 months in original packaging

## 4. PROPERTIES

Colour:	Grey
Consistency:	Pasty, thixotropic
Density:	Approx. 1.5 g/cm <sup>3</sup>
Skin formation time *:	Approx. 10 minutes
Cure rate:	Approx. 4 mm/24h
Shore-A-hardness (DIN 53505)*	Approx. 40
Tensile strength *: (according to DIN 53504)	Approx. 2.5 MPa
Elongation at break *: (according to DIN 53504) Stress at 100% elongation *: (according to DIN 53504)	Approx. 220%  Approx. 1.2 MPa
UV-resistance: Test method: UV source: Distance to the specimen: Test period:	No significant changes of the surface dry UV Osram Vitalux 300 W 25 cm 6 weeks
Application temperature :	5°C to 40°C
In service contact temperature range: Short exposure (up to 1h): * DIN 50014 standard climate	-50°C to +100°C  +120°C 23°C, 50% relative air humidity
Water vapour permeance (EN 12086):	0.015 perm-in at 3 mm dry thickness (tested at 23°C and 85% RH)
Surface burning characteristics (ASTM E84):	Flame spread index 55 Smoke developed 35 ( tested at 2mm thickness on 6,4 mm inorganic reinforced cement board )
Fire class :	M1 ( tested as per NFP 92-512 and NFP 92-501 (France))

## 5. COVERAGE

As a coating:  
About 4.5 kg/m<sup>2</sup> to obtain a coat of 3 mm  
As a sealant: use a 7 mm diameter bead from extrusion gun or cartridge.

Quantities are given as an indication only; they depend to a great extent on the state of surface, the thickness of insulation, the sizes of FOAMGLAS® cellular glass slabs, the method of application, the workmanship etc.