

TECHNOLOGY INSTRUCTION FOR THE JOB	Description: Linear joint seals by Polylack Elastic fire protection material
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1.0. Special dangers beyond the general safety instructions

During the application the workers have to use tight-fitting clothes, min. 1 cm thickness of sole boots, plastic protection-helmet. The upper part of the boots has to be dealt with water-repulsing silicon crème.

The boots has to be changed in the case of watering. It is PROHIBITED to work in wet boots!

In the case of any faults in protection equipping the work has to be broken, and only after the correct repairing the continuation of the work is allowed.

The necessary electric lighting, tooling must be checked systematically and thoroughly. The application can be start and do only by faultless and perfect tools and machines.

The application work can start only clean places, where are not waste materials, metal garbage.

2.0. Enviromental provisions

All works must be done that those do not have any influence on the environment or if any case this must be the minimum. If producing of any waste is un avoidable that must be managed properly.

3.0. Definition of the necessary tools

Painting brush and cleaning brush

Knife and saw

4.0. Materials to be used

Polylack Elastic

Rock-wool duvet, 50 kg / m3 density

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Technical data	Polylack Elastic
Description	Light grey soft putty
Elasticity	Dried coating is flexible and stretchable
Application conditions	+5 oC – + 50 oC at middle humidity
Density	1,25 +/- 0,1 g/cm ³
Non-volatile	77 +/- 2 %
Viscosity	Appr. 45000 MPa/s
Material necessity	1,6 – 1,8 kg/m ²
Drying time	24 hours /1mm
Dilute	With water , but not necessary
Chemicals resistance	Middle Resistant against water and coating liquids

Mineral wool duvet:

- Basic material : basalt based rock
- Density : 50 – 75 kg / m³
- Thickness : 50 mm

4.1. Application field

Architectural dilatation gaps in 20 – 100 mm width, 2-4 hours fire protection seal as below:

Description	Deep /mm	Width /mm	Fire resistance/ minutes	
			Wall	Ceiling
Dilatation gap at fire side	2x50 + 2x1 mm	20	EI 180	EI 120
Dilatation gap at protected side	2x50 + 2x1 mm	20	EI 180	EI 0
Dilatation gap at fire side	2x50 + 2x1 mm	100	EI 180	EI 120
Dilatation gap at protected side	2x50 + 2x1 mm	100	EI 180	EI 120

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5.0. Technological process:**5.1. Surface preparation**

Clean the internal surface of gaps from dust , greasy, oily dirt and architectural mortar waste

- from greasy, oily dirt with solvent
- from dust and architectural mortar waste mechanically

5.2. Production of fire protection sealing**5.2.1. In ceiling**

In the properly prepared gap, put a 2 layers of 50mm thickness , 50 kg/m³ density mineral wool duvet from down on the way that lower layer should be in the level of ceiling. Apply the putty in 1 mm thickness layer on the mineral wool duvet and around that in width 20 – 25 mm.

5.2.2. In vertical walls

In the properly prepared gap, do the same process as in 5.2.1.

If the gap is available from both side , the second layer mineral wool duvet is put also in the level of the wal-surface (in that case it is eligible on which side the putty is applied)

6.0. Inspection and testing tasks

Project-leader selects or team-leader the proper material

Team-leader is responsible for the proper transport

Store-leader is responsible for the proper storage, on site team-leader is responsible

6.1. Application inspection

Doings before the application:

- Measure the width and the length of the gap
- control the cleanness of the internal surface of the gap
- prepare the materials and the tools

The work-phase control:

1. Surface preparation
 - control the cleanness of the surfaces
2. Control the solidity of the seal
3. Perception, control mechanical stability

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7. Standards and documents

8. Documents to be prepared

To the file

Application protocol

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