

KBS® Panel Seal INT

Application Instructions

Introduction

KBS® Panel Seals INT consist of one or two rigid mineral wool panels coated on the exposed surface with **KBS® Foamcoat**. The penetrating cables, cable ladders or cable trays are coated as well for approx. 30 cm from the panel surface.

KBS® Panel Seals are suitable where cables do not pass at random, but are preferably bundled, and/or attached to the wall or floor opening surface.

Required equipment for the installation of KBS® Panel Seals INT:

- mineral wool panels with density $\geq 150 \text{ kg/m}^3$
- precoated KBS Panel (one side with 1 kg/m^2 **KBS® Foamcoat**) for double panel seal
- precoated KBS Panel (both side with 1 kg/m^2 **KBS® Foamcoat**) for single panel seal
- loose mineral wool
- **KBS® Foamcoat**, **KBS® Foamcoat HS**
- mixer (drilling machine)
- 1 bucket with water
- brush, angle trowel, spatula, mortar hod, adhesive tape, keyhole saw, electric keyhole saw
- saw, cartouch press, measure rule, coloured pencil

Airless spray equipment: Graco Smart Mark V

Pressure pot equipment: compressor (260 l/min)

The necessary mineral wool panels must have a density of min. 150 kg/m^3 .

Surface preparation

A thorough cleaning of the cables is not required, however, cables in the area of the penetration seal shall be free of oil and dust. Oil and grease should be removed with dry rags (no solvent). Using a broom or vacuum cleaner to remove heavy layers of dust is sufficient.

Installation instructions

Measure exact location of cables and cable trays with a meter stick (**Picture 1**).

Transfer measurements onto mineral wool panel, but add about 3 mm on height and width of panel (this will result in a tighter fit). Now cut panel into as many pieces as necessary to fit in the opening (**Picture 2**).

Check cut by placing the panel pieces into the opening and make necessary corrections (**Picture 3**).

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Application Instructions KBS® Panel Seal INT | Vers. 1 | 06.08.2021

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Apply **KBS® Foamcoat** to the edges of the panels as well as to the insides of the opening where panels will be fitted. Prior to coating application all areas to be coated have to be cleared of dust, additionally the surface of the building section should be wetted with water (**Picture 4**).

Place one edge of panel first in the opening completely and push it slowly into opening. Since the panel has been cut oversize, a piece of wood and a hammer will be necessary to get panel in place. If panel is loose in the opening, it should be discarded and replaced by a new one (**Picture 5**).

After panel is in place, check carefully for possible openings, stuffing them with loose mineral wool. Apply **KBS® Foamcoat** or **KBS® Foamcoat HS** covering carefully spots stuffed with loose wool, also use **KBS® Foamcoat** or **KBS® Foamcoat HS** liberally between cables and other spots which may allow leakage of fumes and smoke (**Picture 6**).

Use masking tape to keep cables and surrounding area on wall or ceiling clean (**Picture 7**).

Now apply **KBS® Foamcoat** by spray or brush, first to panels, then to cables and support systems to distance required by national tests. Coat wall about 2 cm over edge of opening (**Picture 8**).

Note: When installing a floor penetration seal with large openings size ($> 1 \text{ m}$) the panel seal has to be supported by angular steel bars.

Attention: If walking on a floor penetration is inevitable, use any suitable cover!

