

KBS® Foamcoat

Application Procedure for Electrical Cables

Packaging KBS® Foamcoat

Pails of 15 kg
 Pails of 25 kg
 Drum of 30 kg (export packaging)

Required Equipment

Brush Application

- 2 different types of paint brushes (1 radiator paint brush)
- 1 small drum with water
- large drop sheets
- 1 hand mirror

Spray Application

Airless Spray Equipment for example Graco Mark V Premium equipped with a reversible gun Airless Texspray with orifice 0.021 – 0.035 inch or Wagner HC 940 with gun AG08 with orifice 0.017 – 0.035 inch.

Procedure

Special note: Do not store or apply KBS® Foamcoat at temperatures below + 5°C.

Surface Preparation

In general, there is no cleaning of cables prior to brush or spray application of KBS® Foamcoat necessary. However, thick layers of dust should be removed by vacuum cleaning, sweeping or washing off with water. Heavy layers of grease or oil should be removed with dry rags. After cleaning, cables should be allowed to dry before applying KBS® Foamcoat.

Protection of surrounding areas and equipment

Before applying, make sure all surfaces where overspray or spills may be expected are protected with drop sheets.

Application of KBS® Foamcoat

After opening the drum stir thoroughly with an electric hand drill.

Thinning with water is not recommended as it reduces the viscosity considerably.

When applying KBS® Foamcoat by brush a first coat must be applied and allowed to dry prior to applying subsequent coats. When KBS® Foamcoat is applied by spray, a thin "fog coat" is recommended for easier application of the desired thickness which can now be applied. The thin first coat (fog coat) dries rapidly (20 to 40 min.), depending on temperature and humidity condition.

Start coating where access to cables is most difficult, then continue with the more accessible parts. Difficult parts are, for instance, cables or cable trays close to a wall or floor with insufficient space to allow spray or brush application to the back side.

Here the space between cable tray or cables and wall should be stuffed with mineral wool for a depth of at least 10 cm on both sides of the cable tray or cable bundle. Then mineral wool and cables are coated to achieve a full enclosure, preventing any access of flames.

Single cables should preferably be coated by brush.

Use the hand mirror to look behind cables in difficult access spaces. Make sure that the entire surface is coated on all sides. When coating cables on trays, coat the metal tray as well, along with the cables. Perforated sheet metal trays must be coated on the underside in such a way that the perforations are closed with KBS® Foamcoat. Here a combination of hand, brush or spray application may be needed.

Apply KBS® Foamcoat to a wet thickness of approx. 1.2 mm, resulting in a required dry thickness of 0.8 to 1.0 mm. Generally, this is achieved in two coats by spray, while brushing may take two or possibly three coats. The coverage for this thickness is 1.0 kg/m² for level surface, but considering the curved surfaces of grouped cables, 1.5 kg/m² should be calculated. Also consider loss due to overspray.

Equipment cleaning

All equipment may be cleaned with water. This is especially important for the spray equipment to prevent residues of hardened material in the gun or hose.

Drying time

Temperature, humidity and the amount applied have a very strong influence on the drying time and can vary. Example for an application quantity of 1.0 kg / m²:

Dust dry: within 1 hour (23 ° C / 50% humidity)

Completely dried: after approx. 2 days (23 ° C / 50% humidity)

Air movement in the accelerated drying!

Coating thickness control

For controlling the thickness of the dried KBS® Foamcoat it is recommended to make a U-shape cut and peel back the open end to measure the thickness. This U-shaped piece is glued back with a little KBS® Foamcoat.

It is recommended to remove the drop sheets only after the entire job has been checked for the correct thickness and accepted by the customer.

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