

KBS® Coating

PRODUCT INFORMATION:

KBS® Coating is a water-based, ablative fire protective coating, especially developed for the fire protection of grouped or bundled electrical cables and for cable penetration seals.

Composition KBS® Coating consists of water-based thermoplastic resins, inorganic Incombustible fibres, fillers, pigments and various flame retardant chemicals.

KBS® Coating is free of asbestos and solvents.

TECHNICAL DATA:

Colour	off-white
Viscosity	approx. 50,000 mPas
Density	approx. 1.43 g/cm ³
pH-value	approx. 8.0
Solids	approx. 70%
Limiting Oxygen Index (LOI)	≥95
Odour	wet: negligible dry: odourless
Thinning i.e. cleaning of equipment	water

Drying time

depending on temperature and humidity
to the touch: within 24 hours (20°C/65% RH)
cured: approx. 3 days (20°C/65% RH)

Recommended film thickness

wet: approx. 2.5 mm - resulting in approx. 1.6 mm dry coating. The effectiveness of KBS Coating as a fire retardant coating is in direct relation to the film thickness. Since the economy as well as the current carrying capacity of the cables also depends on the thickness, the above recommendation is believed to provide optimum performance under consideration of all requirements. All tests have therefore been conducted at the indicated thickness ($\pm 0.5\text{mm}$)

Coverage at recommended Thickness

3.0 kg/m² for level surface. For grouped cables or cables on trays allow 30% more material considering the curved cable surfaces.

Thermal conductivity

$\lambda = 0.69 \text{ W m}^{-1} \cdot \text{K}^{-1}$ at 25°C

Specific resistance

$\rho_p = 1.06 \cdot 10^9 \text{ (Ohm} \cdot \text{cm)}$ at 23°C/50%RH
 $\rho_p = 4.10 \cdot 10^5 \text{ (Ohm} \cdot \text{cm)}$ at 23°C/83%RH

Storage temperature

5 – 30°C, must be protected from frost!

Shelf-life

in closed original containers at room temperature at least 18 months

Packaging

Plastic drums of 25 and 7 kg