



Technical Data Sheet

FS15 Cable Coating

Description	Ablative Fire Protection Coating for electrical cables
Fire Rating	FS15 – Up to 90 minutes under IEC60331-11
Approvals	IEC 60332-3 cat. A / U 97085 IEC 60331-21 (90 minutes) FM Approval DNV BS476; Part 6 & 7 BS6853 D8.4
Test Supervision	Official Material Testing Laboratory for the Building Industry, Brunswick
Application Areas	<p>FS15 is assessed as a fire protection coating for:</p> <ul style="list-style-type: none"> • Electrical cable either single, grouped or in horizontal or vertical tray • Supporting cable structures • For interior and exterior use
Benefits	<ul style="list-style-type: none"> • Colour: white • Solvent free • Halogen free • Plasticizer free • Non-abrasive viscoelastic • Impermeable according to DIN 1048 • Water tight • Air tight • Smoke free • Resistant to oil and petrol spills • Weatherproof / UV resistant according to DIN 53 384 • Ageing resistant • Flexible • After completion (full cure) temperature resistant down to -40°C • Specific Gravity: 1.3 (kg/Ltr) • Solids 70%
Application	<ul style="list-style-type: none"> • Stir thoroughly before application <p>Recommended conditions for application:</p> <ul style="list-style-type: none"> • Material- and air-temperature > 5°C, humidity < 80% • FS15 has to be stirred thoroughly before • Application by a slow running stirrer • Application by brush, roller or airless spraying • Recommended tip size for airless spraying: 0.023" – 0.027" • Pressure at least 200 bar <p>Coverage rate:</p> <ul style="list-style-type: none"> • Approx. 1.4 mm wet = 1.00 mm dry = approx. 1.8 kg/m² • Thinning: max. 3 % water
Drying	<ul style="list-style-type: none"> • At 20°C object temperature and 65% relative • Dust dry: approx. 3 hours • Touch dry: approx. 6 hours • Full cure: approx. Min. 14 Days
Calculation of coverage without wastage	<p>Single cable:</p> <ul style="list-style-type: none"> • $d \times 3.14 \times 1.05 \times 1.8 = \text{kg/m}$ <p>Cable bundle:</p> <ul style="list-style-type: none"> • $d \times 3.14 \times 1.4 \times 1.05 \times 1.8 = \text{kg/m}$ <p>Cable bundle on cable tray:</p> <ul style="list-style-type: none"> • $\{(4 \times h) + (2 \times b) + (d \times 1,4)\} \times 1.05 \times 1.8 = \text{kg/m}$ <p>d = diameter of cable or cable loom in m 3.14 = phi 1.05 = coefficient of spraying loss</p>

	1.8 = coverage rate kg/m ² 1.4 = coefficient of increase of surface based on crotches h = height of cable tray in m b = width of cable tray in m
Transport / Storage	<ul style="list-style-type: none"> • Transport and storage free from frost- preferably at a minimum of +5°C to a maximum of +30°C • Shelf-life of unopened pails: 24 months from date of manufacture • Opened pails must be sealed completely
Packaging	<ul style="list-style-type: none"> • 25 kg net weight (19 Litres or 5 Gallons) • plastic pails • other sizes on request
Precautions for Safety Use	Use FS15 indoor in accordance with all applicable local and national regulations
Environment Health and Safety	<ul style="list-style-type: none"> • Non-Hazardous Non-Toxic • As regulations are often revised please request for the actual safety data sheet before using the product

Disclaimer: The above data, particularly the recommendations for the application and use of Fire Security products are based on the manufacturer's knowledge and experience. Due to different materials and conditions of application, which are beyond our control, we recommend in any case carrying out sufficient tests in order to ensure that Fire Security products are suitable for the intended processes and applications. Therefore, any liability for such recommendations or any oral advice is expressly excluded unless we have acted willfully or by gross negligence. It is always the responsibility of the installer / purchaser to guarantee correct preparation, DFT (Fire Security Coatings) and thickness (Fire Security Firestop Products) of all Fire Security products. Fire Security Systems is not liable for installation or faulty installation. It is always the responsibility of the installer / purchaser to guarantee and certify the installation of materials.



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