

MasterFlame® C 3000CA

Firestop cable coating

DESCRIPTION

MasterFlame C 3000CA is a water based ablative coating especially developed for the fire protection of grouped or bundled electrical cables and for cable penetration seals.

TYPICAL APPLICATIONS

- Prevents flame propagation along vertical and horizontal cable ways.
- Also delays short circuit whereby circuit integrity depends on the distance of the cables from fire and the incurred temperature.

ADVANTAGES

- Does not derate electrical cables
- Totally weather and water resistant
- Has an LOI of 100 which means it does not even burn in a 100% oxygen environment
- **MasterFlame C 3000CA** is in no way affecting the human health system. It is non-toxic, solvent-free, phosphate-free and does not contain asbestos or any other substances identified as being carcinogenic
- **MasterFlame C 3000CA** is practically odorless and does not affect the human skin

PACKAGING

MasterFlame C 3000CA is supplied in 35kg plastic drums.

STANDARDS



Meets IEC 60332-3-22 Category A standard for reduced spread of flame.

TYPICAL PROPERTIES*

Colour	Off-white
Viscosity	approx. 50,000 mPas
Density	1.43 g/cm ³
pH value	approx. 8.0
Solids content	approx. 70%
Limiting Oxygen Index (LOI) ASTM D2863	≥ 95
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)
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

APPLICATION GUIDELINES

SURFACE PREPARATION

Extensive cleaning of cables is not required. However, oil or grease should be taken up with dry rags (no solvent). Using a broom or vacuum cleaner to remove heavy layers of dust is sufficient.

MasterFlame C 3000CA is easily applied by conventional methods such as spray and brush, as well as by hand (see application details).

For full installation details and technical support please contact Master Builders Solutions Technical Services department or refer to our method statement.

APPLICATION TEMPERATURE RANGE

Minimum	+5°C
Maximum	+40°C

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COVERAGE / YIELD

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

Recommended film thickness:

wet: approx. 2.5mm - resulting in approx. 1.6mm dry coating.

The effectiveness of **MasterFlame C 3000CA** 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 ($\pm 0.5\text{mm}$)

STORAGE AND SHELF LIFE

MasterFlame C 3000CA has a shelf life of 18 months from production date when stored indoors, ideally in dry frost free conditions, between +5°C and +25°C.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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