

PRODUCT DATA SHEET

SikaSeal[®]-641 Fire Coating

(formerly MFlame C 3000 CA)

Fire protection cable coating

DESCRIPTION

The Product is a water-based ablative coating developed for the fire protection of grouped or bundled electrical cables, cable trays and for cable penetration seals

USES

- Prevents fire propagation along vertical and horizontal cable ways
- For indoor and outdoor application

FEATURES

- High resistance to weathering, aging and chemicals
- LOI > 95 %, no flame formation during burning, even in highest oxygen saturation
- High thermal conductivity and current carrying capacity of electrical cables

CERTIFICATES AND TEST REPORTS

- FM Approval (FM 3971 and FM 4990)
- IEC 60332 (Cat. A) and IEC 60331 test
- Ampacity test (no derating)

PRODUCT INFORMATION

Composition	water-based thermoplastic resin
Packaging	7 kg, 25 kg and 35 kg plastic drums
Colour	Off-white
Shelf life	18 months from production date
Storage conditions	The Product must be stored in the original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.
Density	~1.4 kg/l
pH-Value	~8 at 20 °C
Viscosity	~50.000 mPa.s

TECHNICAL INFORMATION

Resistance to fire	Refer to the section 'Certificates and Test reports' or contact Sika Technical Services for specific information.
Thermal conductivity	0.69 W.m ⁻¹ .K ⁻¹ at +25 °C

Electrical resistivity

23 °C / 50% RH

P = 1.06 x 10⁷ Ω.m

23 °C / 83% RH

P = 4.10 x 10³ Ω.m**APPLICATION INFORMATION****Layer thickness**

Coverage: 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: ~2.5 mm WFT, resulting in ~1.6 mm DFT.
 The effectiveness of the Product as a fire retardant coating is in direct relation to the film thickness.

Ambient air temperature

+5 °C min. / +40 °C max.

Curing time

~ 3 days (20 °C/65 % RH)

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

- Sika Application Manual: SikaSeal®-641 Fire Coating
- Brochure Sika Fire Protection Solutions

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS**SUBSTRATE PREPARATION**

Extensive cleaning of cables is not required. However, thick layers of dust should be removed by vacuum cleaning, sweeping or washing with water. Heavy layers of grease or oil should be removed with dry rags. After cleaning, cables should be allowed to dry before the application of the Product.

APPLICATION**IMPORTANT****Strictly follow installation procedures**

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

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ISO 9001, 14001, 45001 – SGS
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 ISO 9001, 14001 – SGS
 Sika Saudi Arabia Limited
 ISO 9001, 14001 – TÜV
 Sika MB Construction Chemicals LLC
 Sika Construction Chemicals for Manufacturing LLC
 ISO 9001 – LMS
 Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.

**CLEANING OF EQUIPMENT**

Clean tools and application equipment with water immediately after use.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Product Data Sheet

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