

## Sika® Unitherm® 7854

Solvent based PVC-AY topcoat for steel fire protection systems

### Product- description

Sika Unitherm 7854 is a high build single pack topcoat, specially designed for Sika Unitherm intumescent fire protection systems.

Sika Unitherm 7854 is used on structural steelwork exposed to weathering and/or decorative reasons.

Sika Unitherm 7854 has no impact on the formation of the heat insulating foam of the intumescent coating.

### Application areas:

Fire protection of structural steelwork exposed to weathering or/and decorative reasons.

### Characteristics:

- **No impact on the foaming reaction of intumescent coatings**
- **Applicable on all Sika Unitherm intumescent coating systems for steel**
- **Topcoat has to be used for steel members exposed to weathering**
- **Does not increase static load**
- **Simple application**
- **Individual coloration possible with corresponding topcoat, various colour shades in RAL, others available**

### Product data

#### Colour shades:

RAL colour shades, others available on request

#### Packaging:

13 kg, net weight

#### IMDG-Code-No:

Class 3.3; UN No. 1263

#### Shelf life:

12 months from delivery in cool and dry storage conditions, original unopened containers.

### Systems

#### Coating systems:

##### Steel:

Primer

Sika Permacor 1705

Intumescent coating

Sika Unitherm intumescent basecoat for steel

Topcoat

Sika Unitherm 7854

##### Galvanised steel:

Interface

Sika Permacor 2706/EG

Intumescent coating

Sika Unitherm intumescent basecoat for steel

Topcoat

Sika Unitherm 7854



**Surface pre-treatment:** Prior to application of Sika Unitherm 7854 topcoat, the surface to be coated must be dry (fingernail-test), clean and free from dirt, oil, grease or any other contamination.

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## Technical data

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**Mass density:** Approx. 1.3 g/cm<sup>3</sup>

**Solids by weight:** Approx. 61% (according to EN ISO 3251)

**Flash point:** + 38°C

**Consumption rate:**

Interior use:  
Wet film thickness: 140 microns  
dry film thickness: 60 microns  
theoretical coverage: 180 g/m<sup>2</sup> or 140 ml/m<sup>2</sup>

Exterior use:  
Wet film thickness: 2 x 120 microns  
dry film thickness (total): 100 microns  
theoretical coverage: 2 x 150 g/m<sup>2</sup> or 2 x 120 ml/m<sup>2</sup>

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## Application instructions

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**Preparation of coating material:** Stir thoroughly, free of lumps.

**Application methods:**

Airless spraying:  
- material shall be applied undiluted  
- airless spray equipment with transmission  $\geq 30 : 1$ , pressure 180 bar  
- hose diameter not below 3/8 “  
- whipline 1/4 “ may be used  
- recommended nozzle size 0.27 - 0.56 mm or 0.011 - 0.023 “  
- hoses must be solvent resistant!

Brushing and rolling:  
- 1 - 2 application layers are necessary to achieve final dry film thickness of 60  $\mu$ m

**Application conditions:**

Object temperature not below + 5°C, to max. + 50°C  
Relative humidity max. 80%  
Application temperature shall be at least  $\geq 3$  K above dew point. In case relative humidity exceeds 80% special measures must be taken to prevent the condensation forming while application.  
During application and drying of total Sika Unitherm coating system including Sika Unitherm 7854 topcoat as well as transportation special protection measures must be taken against weathering.  
Note: With critical situation i.e. frequent formation of condensation and/or heating up of surfaces above 45°C, possible special measures should be taken.

**Drying/Curing:** At approx. + 20°C temperature and 65% relative humidity. Touch dry after approx. 4 hours; overcoatable with second topcoat layer after approx. 24 hours. Lower temperatures and higher relative humidity may extend drying time. Sika Unitherm 38091 interior/exterior require a minimum of 24/48 hours drying before the application of first layer Sika Unitherm 7854 topcoat.

**Cleaning of equipment:** Immediately after use with Sika Unitherm thinner 11089.

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## Important notice

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**EU Regulation 2004/42 (Decopaint Directive):** The maximum allowed VOC content acc. To EU Regulation 2004/42 (product class IIA / i, type Wb) in the ready for use material is 600 g/l (limit 2007).  
The maximum VOC content of Sika Unitherm 7854 is < 600 g/l VOC.

**Notes regarding hazards:** Detailed health and safety information as well as relevant precautionary measures - e.g. physical, safety, toxicological and ecological data - may be found in our material safety data sheets.  
Please consider all relevant and applicable regulations regarding hazardous substances.

# Construction

This information and, in particular, the suggestions relating to the application and end-use of our products, are based on our knowledge and experience in normal use, providing the products have been properly stored and applied. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of results achieved or liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any advice offered by spoken word, unless we have been deliberately at fault or guilty of gross negligence. The user shall be required to prove that he has duly and in full extent submitted to Sika in writing all information necessary for Sika to make a fair and proper assessment. The user must test the products suitability for the intended application and purpose. Sika reserves the right to change the product specifications. The proprietary rights of third parties must be observed. Orders are accepted subject to our current terms and conditions of sale and delivery. The most recent edition of the Technical Data Sheet shall apply, copies of which must be requested from us.



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