

Sika® Unitherm®-7854

PVC-Alkyd resin top coat, solvent based

Product Description Sika® Unitherm®-7854 is a high build single pack top coat, designed for Sika® Unitherm®- intumescent fire protection systems.

Uses

- Coloured top coat for solvent based and water based intumescent coatings
- Weather protection of the intumescent layer

Characteristics / Advantages

- Good UV-resistant
- Good weather resistant
- Easy to apply
- Does not increase static load
- No impact on the formation of the heat insulating foam

Test

Approval / Standards British Standard, Warrington Fire Research.
German Standard, BAM.
Many different countries, e.g. Taiwan, China, Singapore ...

Product Data

Form

Appearance / Colours RAL colour shades, others on request

Packaging 13.0 kg containers, net weight

Storage

Storage Conditions / Shelf-Life 12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from frost.

Technical Data

Chemical Base PVC-Alkyd-Resin

Density Resin liquid: ~ 1.30 kg/l

Solid Content ~ 61% (by weight)

Flash Point ~ +38°C

Construction



Resistance

UV Resistance UV-resistant

System Information

System Structure	<i>Steel:</i> Primer: 1 x Sika® Permacor®-1705: Intumescent layer: 1 x Sika® Unitherm®-38091 interior or exterior Top coat (interior): 1 x Sika® Unitherm®-7854 or Top coat (exterior) 2 x Sika® Unitherm®-7854
	<i>Galvanised steel:</i> Primer: 1 x Sika® Permacor®-2706 EG Intumescent layer: 1 x Sika® Unitherm®-38091 interior or exterior Top coat (interior): 1 x Sika® Unitherm®-7854 or Top coat (exterior) 2 x Sika® Unitherm®-7854

Application Details

Consumption / Dosage	<i>Interior:</i> Consumption: ~ 180 g/m ² or ~ 140 ml/m ² Wet Film Thickness: ~ 140 µm Dry Film Thickness: ~ 60 µm
	<i>Exterior:</i> Consumption: ~ 2 x 150 g/m ² or ~ 2 x 120 ml/m ² Wet Film Thickness: ~ 2 x 120 µm Dry Film Thickness: ~ 2 x 50 µm = 100µm

Substrate Quality The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

Prior to application of Sika® Unitherm®-7854 top coat the Sika® Unitherm®-38091 must be dry (fingernail - test).

If in doubt apply a test area first.

Application Conditions / Limitations

Substrate Temperature +5°C min. / +50°C max.

Ambient Temperature +5°C min. / +50°C max.

Relative Air Humidity 80% r.h. max.

Dew Point Beware of condensation!

The substrate and uncured coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the wall finish.

Application Instructions

Mixing/ Stiring One pack product, stir thoroughly, free of lumps.

Stiring Tools Sika® Unitherm®-7854 must be mechanically stirred using an electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools	<p><i>Airless spraying:</i></p> <ul style="list-style-type: none"> - Material shall be applied undiluted - Airless spray equipment with transmission > 30 : 1, pressure 180 bar - Hose diameter not below 3/8" - Recommended nozzle size: 0.27 - 0.56 mm or 0.011 - 0.023" - Hoses must be solvent resistant <p><i>Brush / roller:</i></p> <ul style="list-style-type: none"> - Use solvent resistant tools 																								
Cleaning of Tools	Clean all tools and application equipment with Sika® Unitherm® thinner-11089 immediately after use. Hardened and/or cured material can only be removed mechanically.																								
Potlife	Not applicable (see shelf life).																								
Waiting Time / Overcoating	<p>Before applying Sika® Unitherm®-7854 - on Sika® Unitherm®-38091 - allow:</p> <table border="1" data-bbox="609 566 1527 748"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>72 hours</td> <td>-</td> </tr> <tr> <td>+20°C</td> <td>48 hours</td> <td>-</td> </tr> <tr> <td>+30°C</td> <td>48 hours</td> <td>-</td> </tr> </tbody> </table> <p>Before applying Sika® Unitherm®-7854 - on Sika® Unitherm®-7854 - allow:</p> <table border="1" data-bbox="609 835 1527 1016"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>48 hours</td> <td>5 days</td> </tr> <tr> <td>+20°C</td> <td>24 hours</td> <td>3 days</td> </tr> <tr> <td>+30°C</td> <td>24 hours</td> <td>3 days</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>	Substrate temperature	Minimum	Maximum	+10°C	72 hours	-	+20°C	48 hours	-	+30°C	48 hours	-	Substrate temperature	Minimum	Maximum	+10°C	48 hours	5 days	+20°C	24 hours	3 days	+30°C	24 hours	3 days
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Notes on Application / Limitations	<p>With relative air humidity of ≥ 80% the waiting time / overcoat is increased by 24 hours.</p> <p>Always ensure good ventilation when using Sika® Unitherm®-7854 in a confined space, to ensure drying.</p> <p>Freshly applied Sika® Unitherm®-7854 should be protected from rain, condensation, water and weathering for at least 5 days.</p> <p>If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO2 and H2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.</p>																								
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.																								
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.																								
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.																								

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.

EU Regulation 2004/42

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / i type Sb) is 600 g/l (limit 2007) for the ready to use product.

VOC - Decopaint Directive

The maximum content of **Sika® Unitherm®-7854** is < 600 g/l VOC for the ready to use product.

