

PRODUCT DATA SHEET

Sika® Unitherm® Top W

Water based topcoat for fire protection coatings on structural steel

Made in Germany

DESCRIPTION

Sika® Unitherm® Top W is a single pack topcoat specially designed for Sika® Unitherm® and Sika® Pyroplast® intumescent fire protection systems against humidity and mechanical strain.

Sika® Unitherm® Top W has no impact on the formation of the heat insulating foam of the intumescent coatings.

USES

Sika® Unitherm® Top W may only be used by experienced professionals.

Sika® Unitherm® Top W is used as topcoat on fire protected structural steelwork for weathering and / or decorative reasons.

In special conditions, i.e. frequent formation of condensation and / or heating up of surfaces above + 45°C, adequate arrangements should be taken. In dry and clean conditions, top coating with Sika® Unitherm® Top W on Sika® Unitherm® and Sika® Pyroplast® fire protection coatings may not required.

CHARACTERISTICS / ADVANTAGES

- No impact on the foaming reaction of intumescent coatings
- VOC Sika® Unitherm® Top W < 48 g/l
- Free of halogens and aromatic solvents
- Applicable on all Sika® Unitherm® and Sika® Pyroplast® intumescent coating systems for steel
- Meets Type Z1 classification (i.e. internal conditions include temperatures till + 5°C and high humidity) as part of the coating system
- Complies with the highest quality requirements (level 4) of DGNB as part of the coating system
- Simple application, does not increase static load
- Individual coloration possible various colour shades in RAL, others available

SUSTAINABILITY

 Complies with German AgBB and French VOC (A+) when uses as part of the coating system

PRODUCT INFORMATION

Packaging	Sika® Unitherm® Top W	11 kg and 3 l net.	
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Appearance and colour	RAL colour shades		
Shelf life	18 months		
Storage conditions	In originally sealed containers Protect against frost!	In originally sealed containers in a cool and dry environment. Protect against frost!	
Density	~1,25 g/cm³ at + 20°C		
Flash point	Not applicable	Not applicable	
Solid content	~45 % by weight	(according ISO 3251	
SYSTEM INFORMATIO	N		
System	Steel:		
	Surface and / or primer	See corresponding product data sheet of the Sika® Unitherm® or Sika® Pyroplast® intumescent coat- ing range	
	Intumescent coating	Sika® Unitherm® or Sika® Pyro- plast® intumescent coating for steel	
	Topcoat	Sika® Unitherm® Top W	
	Galvanized steel:		
	Interface	Sika® Permacor®-2706 EG	
	Intumescent coating	Sika® Unitherm® or Sika® Pyro-	
	Topcoat	plast® intumescent coating for steel Sika® Unitherm® Top W	
APPLICATION INFORM	IATION		
Consumption	Interior use (Type Z1/ Z2):		
	Dry film thickness	<u>~</u> 60 μm	
	Theoretical coverage	min. 150 g/m²	
	Due to an unleaded and unchromated pigment coating, a higher loading of 200g/m^2 (160 ml/m²) is required in several work steps to reach the designated opacity. The quantities do not cover any material wastages. In case of diluting the loading has to be increased.		
Relative air humidity	point. During application and drying coating system including Sika® special protection measures m Note: With critical situations i.	Max. 80 %, application temperature shall be at least ≥ 3 K above dew point. During application and drying of total Sika® Unitherm® or Sika® Pyroplast® coating system including Sika® Unitherm® Top W as well as transportation special protection measures must be taken against weathering. Note: With critical situations i.e. frequent formation of condensation and / or heating up of surfaces above + 45°C, adequate arrangements should be	

Object temperature not below + 5°C, to max. + 40°C*

* If higher temperatures occur, please consult the technical department for further assistance.



Surface temperature



Waiting time to overcoating	Sika® Unitherm® Top W requires a minimum of 6 h drying prior application with itself. A complete drying of the fire protection coating prior topcoat application is highly recommended. Through-drying of the used Sika® Unitherm® or Sika® Pyroplast® intumescent coating can be checked by 'fingernail-test'. Prior to further applications possible contaminations must be removed.		
Drying time	Drying/Curing Average drying time of Sika® Unitherm® Top W at approx. + 20°C object temperature and 60 % relative humidity:		
	Touch-dry	~0.5 h	
	Overcoatable with itself	~6 h	
	Through-drying	~24 h	

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.

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

SURFACE PREPARATION

Prior application of Sika® Unitherm® Top W, the surface to be coated must be dry, clean and free from dirt, oil, grease or any other contamination.

MIXING

Stir thoroughly, free of lumps.

APPLICATION

The method of application has a major effect on achieving uniform thickness and appearance. Spray application will give the best results. The indicated dry film thickness is easily achieved by airless spray. In case of application by roller or brush, additional layers may become necessary to achieve the required coating thickness, depending on type of construction, site conditions, colour shade etc. Prior to application a trial on site may be useful to ensure the selected application method will provide the requested results.

Airless spraying:

- Material shall be applied undiluted
- Airless spray equipment with transmission ≥ 30 : 1, pressure approx. 180 bar
- Whip line ¼ " may be used
- Nozzle size 0.28 0.38 mm (0.011 0.015 inch)
- Hoses must be used for water based products only!
 Above data shall be used as a guideline with variations being made to suit local conditions.

Brushing and rolling:

- Material shall be applied undiluted
- Load natural fine bristle brushes or short pile lambswool rollers are recommended

CLEANING OF EQUIPMENT

Immediately after use with water.

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 the 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.

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