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PRODUCT DATA SHEET Sika[®] Unitherm[®] Repair S

Solvent based repair filler for solvent borne Sika Unitherm fire protection systems

PRODUCT DESCRIPTION	Sika Unitherm Repair S is a solvent based repair filler for solvent borne Sika fire protection systems, interior and exterior use.
	Sika Unitherm Repair S and solvent borne Sika fire protection systems are forming a heat insulating layer under the influence of fire and improve the fire resistance of steel parts.
USES	Damaged areas of solvent borne Sika fire protection systems may be repaired with Sika Unitherm Repair S. Smoothing of uneven areas on steel surfaces, levelling of structured fire protection coating surfaces to achieve smooth finish. Please consider all instructions of the product data sheet of the applied Sika Unitherm fire protection system.
PROPERTIES	 Repair of damaged areas of all solvent borne Sika Unitherm fire protection systems Smoothing coating finish Compatible with Sika Unitherm Top S topcoat and Sika Unitherm Top S EG * * Below Sika Unitherm Top S and Sika Unitherm Top S EG are called
	Sika Unitherm Top S
PRODUCT DATA	
COLOUR SHADES	White
PACKAGING	13 kg, net weight
IMDG-CODE NO.	Class 3.3, UN-No.: 1263
SHELF LIFE	18 months from delivery in cool and dry storage conditions, original unopened containers.

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SYSTEMS	
COATING SYSTEMS	Steel:Primer e.g.:Sika Permacor-1705Intumescent coating: Solvent borne Sika fire protection systemsRepair filler:Sika Unitherm Repair STopcoat:Sika Unitherm Top SGalvanised steel:Interface:Sika Permacor-2706 EGIntumescent coating: Solvent borne Sika fire protection systemsRepair filler:Sika Unitherm Repair STopcoat:Sika Unitherm Top S
SURFACE PREPARATION	Damages of the primer coat like scratches or corrosion must be eliminated before repairing the fire protection system. At affected fire protection coating areas, all loose and damaged particles have to be removed. For further information about repair work of steel fire protection systems please see special technical data sheet 'Maintenance of Sika fire protection coatings for steel'.
TECHNICAL DATA	
MASS DENSITY	Approx. 1.38 g/cm ³
SOLIDS BY WEIGHT	Approx. 85% (according to BCF Guidance Method)
FLASH POINT	+ 35 °C
MATERIAL CONSUMPTION	Application rate of Sika Unitherm Repair S depends on the required dry film thickness of the applied fire protection coating system. The specified dry film thicknesses for the different section factors and the coating system structure have to be maintained. Please see the corresponding product data sheet of solvent borne Sika fire protection coatings. After keeping to the specified drying times, 1 x 160 g/m ² Sika Unitherm Top S topcoat can be applied for interior use, 2 x 140 g/m ² Sika Unitherm Top S topcoat must be applied for exterior use.
HINTS OF APPLICATION	
PREPARATION OF MATERIAL	Not necessary. Do not thin.
APPLICATION METHOD	By trowel or putty knife.
APPLICATION CONDITIONS	Object temperature not below + 5°C, to max. + 40°C Relative humidity max. 80% Application temperature shall be at least ≥ 3 K above dew point. In case relative humidity exceeds 80% special measures must be taken to

In case relative humidity exceeds 80% special measures must be taken to prevent the condensation forming while application. During application and drying of the repaired Sika fire protection system

During application and drying of the repaired Sika fire protection system including Sika Unitherm Top S topcoat as well as transportation special protection measures must be taken against weathering.

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DRYING / CURING	At + 20°C object temperature and 65% relative humidity:
	Interior use:
	Overcoating of Sika Unitherm Repair S
	- DFT up to 1 mm after 24 h drying
	- DFT up to 2 mm after 48 h drying
	with 1 x 160 g/m² Sika Unitherm Top S topcoat (approx. 1 x 140 ml/m²).
	Exterior use:
	Overcoating of Sika Unitherm Repair S
	- DFT up to 1 mm after 48 h drying
	- DFT up to 2 mm after 72 h drying
	with 1 x 160 g/m² Sika Unitherm Top S topcoat (approx. 2 x 120 ml/m²).
	A complete drying of the fire protection coating prior topcoat application is highly recommended.
ΤΟΡϹΟΑΤ	Sika Unitherm Top S produced in RAL colour shades or on request for other colour shades.
	For exterior use: 2 x 140 g/m ² is necessary for structural steelwork exposed to weathering (see separate product data sheet for topcoat).
CLEANING OF EQUIPMENT	Immediately after use with Sika Unitherm Thinner.
IMPORTANT NOTICE	
EU-DIRECTIVE 2004/42/EC (DECOPAINT-DIRECTIVE)	For the product category IIA / i, Type Sb, the maximum permissible content of VOC according to the EU-Directive 2004/42/EC is 500 g / litre (limit 2010).
	The maximum VOC-value of Sika Unitherm Repair S is below 500 g / l.
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 o this product may vary from country to country. Please consult the loca Product Data Sheet for the exact description of the application fields.
HEALTH AND SAFETY INFORMATION	Information on the safe handling of chemical products, as well as the essen tial physical, safety-related, toxicological and ecological data can be found ir the current safety data sheets. Observe all relevant regulations, e.g. the hazardous substances act. Further notes and information data sheets or product safety and disposal can be found on the Internet at www.sika.de.
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 accord ance 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 othe 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 ou current terms of sale and delivery. The most recent product data sheet applies. This can be requested from us or is available to download at www.sika.de. Please check availability of loca product data sheet at your local website. In cases of doubt the German text is valid.

Product Data Sheet Sika® Unitherm® Repair S 03.03.2014, Revision_01 DS-Code: 9133 English Fire Protection



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Product Data Sheet

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Version given by

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