Sika® Unitherm® madera

Intumescent coating, water dispersed, for wood

Product Description	Sika [®] Unitherm [®] madera is a water dispersed thin film fire protection coating for interior use. It forms a carbon char under the effects of heat and delays the inflammation of wood.	
Uses	Intumescent coating for interior use	
	Reduction of ignitability of soft and hard wood, as well as other wood derivates, i.e. plywood, chipboard, fibre insulation board	
	 Prevents propagation of fire and diminishes flue-gas density and flue-gas temperature 	
	Not for surfaces exposed to mechanical stress	
Characteristics / Advantages	■ Water based coating system	
	Low material consumption	
	 Reduction of smoke emission and flammability 	
	■ Easy to apply	
	Does not increase static load	
	Only for interior use	

Product Data

Form	
Appearance / Colour	White
Packaging	25.0 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	
Density	Resin liquid: ~ 1.33 kg/l
Solid Content	~ 70% (by weight) according: EN ISO 3251
Resistance	
Fire Resistance	Inflammable for a certain time.



System Information				
System Structure	Intumescent layer: Top coat (mandatory):	1 <u>-2</u> x Sika [®] Unitherm [®] madera 1 x Sika [®] Unitherm [®] -38202		
Application Details				
Consumption / Dosage	Intumescent layer: Sika [®] Unitherm [®] Madera	1 x 400g/m² or 2 x 200 g/m²		
	Top coat Sika [®] Unitherm [®] 38202	~ 150 g/m²		
Substrate Quality	Prior to application of Sika [®] Unitherm [®] madera the surface must be clean, dry and free of all contaminants such as dirt, oil, grease, wax, coatings and surface treatments, etc. Surfaces that have been treated with non-acid resistant coatings such as emulsion paint containing lime, chalk or lithopone should be rubbed down completely.			
	If in doubt apply a test area first.			
Application Conditions / Limitations				
Substrate Temperature	+10°C min. / +40°C max.			
Ambient Temperature	+10°C min. / +40°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 [®] madera must be mechanically stirred thoroughly, free of lumps, using an electric stirrer (300 - 400 rpm) or other suitable equipment.			
Application Method / Tools	 Airless spraying: Material shall be applied undiluted Airless spray equipment with transmission > 23 : 1 Hose diameter not below 3/8" Whip_line ½" may beused34 - 0.66 mm or 0.017" - 0.027" Remove all filters Hoses must be used only for water based products Brush and roller: More than one coat may be necessary to achieve the equivalent DFT of a single spray coat. Waiting time between each layer must be at least 8 hours. 			
Cleaning of Tools	- Material shall be applied in supply viscosity Clean all tools and application equipment with water immediately after use.			
Potlife Potlife	Hardened and/or cured material can only be removed mechanically. Not applicable (see shelf life)			
. Julie	Not applicable (see shelf life).			

Construction

Waiting Time / Overcoating

Before applying Sika[®] Unitherm[®] madera - on Sika[®] Unitherm[®] madera - allow:

Substrate temperature	Minimum	Maximum
+10°C	8 - 10 hours	-
+20°C	4 - 6 hours	-
+30°C	4 - 6 hours	-

Before applying Sika[®] Unitherm[®]-38202 - on Sika[®] Unitherm[®] madera - allow:

Substrate temperature	Minimum	Maximum
+10°C	8 - 10 hours	-
+20°C	6 - 8 hours	-
+30°C	6 - 8 hours	-

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Notes on Application / Limitations

With relative air humidity of \geq 80% the waiting time / overcoat is increased by 24 hours.

Always ensure good ventilation when using Sika® Unitherm® madera in a confined space, to ensure drying.

Applied Sika[®] Unitherm[®] madera should be protected from rain, condensation, water and weathering.

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.

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 enduse 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 VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / I, type Wb) is 140 g/l (limit 2010) for the ready to use product.

The maximum content of **Sika**[®] **Unithermv madera** is < 140 g/l VOC for the ready to use product.



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