

## PRODUCT DATA SHEET

# Sika® Pyroplast® Wood P with Topcoat Sika® Pyroplast® Top W

Water based fire protective coating system for wood, interior use

PRODUCT DESCRIPTION	Sika Pyroplast Wood P is a water borne fire protection coating for interio use which forms a carbon char under the effect of heat.	
	Sika Pyroplast Wood P is thoroughly tested to provide spread-of-flame protection and delays the inflammation of natural wood derivates.	
	Sika Pyroplast Wood P emphasizes the interior design of timber structures and provides an attractive option to architects, builders and end-users.	
USES	Reduction of ignitability of soft- and hardwood ≥ 10 mm thickness and other timber derivatives, i.e. plywood, chipboard, fibre insulation board hardboard and also on veneering ≥ 12 mm thickness.	
	Insulates against heat, checks fire, prevents propagation of fire and spread of flame and diminishes flue-gas temperatures.	
	Sika Pyroplast Wood P should not be used in areas of high humidity, heat sources or on surfaces where significant physical impact is likely.	
PROPERTIES	- Water based coating system	
	- VOC Sika Pyroplast Wood P: 0 g/l	
	- VOC Sika Pyroplast Top W: approx. 48 g/l	
	- Free of Halogens and aromatic solvents	
	- Low material consumption	
	- Simple application	
	- No additional statical load of coating	
	- Individual coloration possible with topcoat Sika Pyroplast Top W	
TESTS	APPROVAL / STANDARDS	
	Sika Pyroplast Wood P is classified to many standards worldwide including	

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EN 13501-1, Bs1d0.

PRODUCT DATA				
COLOUR SHADES	Sika Pyroplast Wood P Primer: Sika Pyroplast Wood P: Sika Pyroplast Top W:	white white, black on inquiry Available in all RAL colours, others available on request		
PACKAGING	Sika Pyroplast Wood P Primer: Sika Pyroplast Wood P: Sika Pyroplast Top W:	5 kg, net weight 5 kg and 25 kg, net weight 3 l and 11 kg, net weight		
IMDG-CODE-NO	Sika Pyroplast Wood P Primer: Sika Pyroplast Wood P: Sika Pyroplast Top W:	Not applicable Not applicable Not applicable		
SHELF LIFE	18 months, in cool and dry storage conditions and original unopened containers.  Protect against frost!			
SYSTEMS				
COATING SYSTEMS	Primer (if necessary): Sika Pyroplast Wood P Primer			
	Intumescent coating: Sika Pyroplast Wood P			
	<u>Topcoat:</u> Sika Pyroplast Top W			
SURFACE PREPARATION	Substrate must be dry, free from dust, oil, wax, grease, dirt, resin, etc.; Existing coatings with poor adhesion have to be completely removed, e.g. with solvent-based paint stripper or to be rubbed down. Surfaces that have been treated with non-acid resistant coatings or release agents such as emulsion paints containing lime, chalk or lithopone should be rubbed down completely. Timber substrates with wetting difficulties should be roughened thoroughly with abrasive paper.			
PRE-TREATMENT WITH WOOD PRESERVATIVES	If resistance to wet rot, fungi or insect attack is requested, we recommend using commercial preservative agents based on oil-alkyd resins provided they are compatible with the Sika Pyroplast fire protection system.  Apply Sika Pyroplast fire protection coating system only after the preservative treatment is completely dry. The moisture content of the timber should be below 15 %. Sika Pyroplast Wood P Primer may be used to allow sufficient adhesion or avoid diffusion of wood ingredients on resinous wood.			
TECHNICAL DATA				
MASS DENSITY	Sika Pyroplast Wood P Primer: Sika Pyroplast Wood P: Sika Pyroplast Top W:	approx. 1.29 g/cm³ at 20°C approx. 1.29 g/cm³ at 20°C approx. 1.26 g/cm³ at 20°C		
SOLIDS BY WEIGHT	Sika Pyroplast Wood P:	approx. 52% (according to EN ISO 3251) approx. 65% (according to EN ISO 3251) approx. 52% (according to EN ISO 3251)		
FLASH POINT	Sika Pyroplast Wood P Primer: Sika Pyroplast Wood P: Sika Pyroplast Top W:	Not applicable Not applicable Not applicable		

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#### **MATERIAL CONSUMPTION**

1 × 120 g/m² Sika Pyroplast Wood P Primer (if necessary)

1 × ≥ 350 g/m² Sika Pyroplast Wood P

plus

1 x 120 g/m<sup>2</sup> Sika Pyroplast Top W

These consumption rates refers to the classification acc. to

#### EN 13501-1, Bs1d0

**B** EN 13823 FIGRA  $\leq$  120 W/s und LFS < edge of specimen and

 $THR_{600s} \le 7,5 \text{ MJ}$ 

and

EN ISO 11925-2 Exposure = 30 s Fs < 150mm within 60 s

s1 SMOGRA  $\leq$  30 m<sup>2</sup> / s2 and TSP<sub>600s</sub>  $\leq$  50 m<sup>2</sup>

d0 No flaming droplets/ particles in EN 13823 within 600 s;

If consumption rates for alternative standards are requested, please consult the Technical Department of Sika Deutschland GmbH.

#### **HINTS OF APPLICATION**

#### PREPARATION OF MATERIAL

Stir thoroughly, free of lumps.

#### **APPLICATION METHOD**

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 that the selected application method will provide the requested results.

#### Airless spraying:

- Material shall be applied undiluted
- Airless spray equipment with pressure ratio ≥ 30 : 1
- Filters should be removed
- Hose diameter not below % "
- Whipline 1.5 2 m, NW 6, may be used
- Recommended nozzle size for Sika Pyroplast Wood P Primer:
   0.27 0.34 mm or 0.011 0.017 "
- Recommended nozzle size for Sika Pyroplast Wood P: 0.34 - 0.64 mm or 0.017 - 0.025 "
- Recommended nozzle size for Sika Pyroplast Top W:
   0.27 0.56 mm or 0.011 0.023 "

Above data shall be used as a guideline with variations being made to suit local conditions.

#### Brushing and rolling:

- Material shall be applied in supply viscosity
- Load natural fine bristle brushes or short pile lambswool rollers are recommended.

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#### **APPLICATION CONDITIONS**

Sika Pyroplast Wood P Primer, Sika Pyroplast Wood P and

Sika Pyroplast Top W:

Object temperature not below + 10°C, to max. + 40°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.

At high moisture content of the timber (> 15%), the coating is unlikely to dry satisfactorily and blooming may result. Therefore the moisture content of the timber should be, as near as possible to the level it will stabilise at in use

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

#### **DRYING / CURING**

At approx. + 20°C temperature and 60% relative humidity.

Sika Pyroplast Wood P Primer:

- Touch dry: after approx. 3 hours- Overcoating: after approx. 6 - 8 hours

Sika Pyroplast Wood P:

- Touch dry: after approx. 6 hours

- Overcoating: after approx. 48 hours with Sika Pyroplast Top W

Sika Pyroplast Top W:

- Touch dry: after approx. 2 hours- Fully dry: after approx. 24 h

Different temperature and relative humidity's have an influence on drying

Ensure that the previous coat is being fully dry, prior overcoating is carried

#### **CLEANING OF EQUIPMENT**

Immediately after use with water.

#### **IMPORTANT NOTICE**

## EU-DIRECTIVE 2004/42/EC (DECOPAINT-DIRECTIVE)

The maximum allowed VOC content acc. to EU-Directive 2004/42/EC (product class IIA / g, type Wb) in the ready for use material is 30 g/l (limit 2010).

The maximum VOC content of Sika Pyroplast Wood P Primer is 20 g/l VOC.

The maximum allowed VOC content acc. to EU-Directive 2004/42/EC (product class IIA / i, type Wb) in the ready for use material is 140 g/l (limit 2010).

The maximum VOC content of Sika Pyroplast Wood P is 0 g/l VOC.

The maximum allowed VOC content acc. to EU-Directive 2004/42/EC (product class IIA / i, type Wb) in the ready for use material is 130 g/l (limit 2010).

The maximum VOC content of Sika Pyroplast Top W is < 48 g/l VOC.

**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.

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### HEALTH AND SAFETY INFORMATION

#### **LEGAL NOTES**

Information on the safe handling of chemical products, as well as the essential physical, safety-related, toxicological and ecological data can be found in the current safety data sheets. Observe all relevant regulations, e.g. the hazardous substances act. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

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. 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 local product data sheet at your local website. In cases of doubt the German text is valid.

Sika Deutschland GmbH

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