

PRODUCT DATA SHEET

Sika® Pyroplast® Wood T with topcoat Sika® Pyroplast® Wood Top T New

Water based fire protective coating system for wood, interior use

DESCRIPTION

Sika® Pyroplast® Wood T is an ecological and efficient water based, transparent fire protection coating which forms a carbon char under the effect of heat.

Sika® Pyroplast® Wood T is thoroughly tested to provide spread-of-flame protection and delays the inflammation of interior natural wood and wood derivatives.

Sika® Pyroplast® Wood T emphasizes the interior design of timber structures in keeping an attractive option to architects, builders and end-users.

USES

Sika® Pyroplast® Wood T with topcoat Sika® Pyroplast® Wood Top T New may only be used by experienced professionals.

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 veneers ≥ 13 mm thickness.

Insulates against heat, checks fire, prevents propagation of fire and spread of flame and diminishes flue-gas temperatures.

Sika® Pyroplast® Wood T should not be used in areas of high humidity, heat sources or on surfaces where significant physical impact is likely such as floors, stairs etc.

CHARACTERISTICS / ADVANTAGES

- Ecological and efficient water based coating
- VOC Sika® Pyroplast® Wood T < 40 g/l
- Free of aromatic solvents
- Low material consumption
- Simple application
- No additional statical load of coating

SUSTAINABILITY

- Complies with German AgBB, French VOC (A+) and Scandinavian M1 as coating system

APPROVALS / CERTIFICATES

Independently fire tested and approved to major European and national standards including:

- EN 13501-1 (ref: K-3067/776/14-1)
- BS 476- 6 (ref: 264398), part 7 (ref: 264397)
- DIN 4102-1 (ref: Z-56.313-91)
- ASTM E84-08a (ref: 01.15209.01.077b)

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PRODUCT INFORMATION

Packaging	Sika® Pyroplast® Wood T Primer	5 kg net.
	Sika® Pyroplast® Wood T	25 kg and 5 kg net.
	Sika® Pyroplast® Wood Top T New	10 kg and 2.5 kg net.
	Sika® Unitherm® Thinner	25 l and 5 l
Appearance and colour	Sika® Pyroplast® Wood T Primer	Transparent
	Sika® Pyroplast® Wood T	Transparent
	Sika® Pyroplast® Wood Top T New	Matt
Shelf life	18 months	
Storage conditions	In originally sealed containers in a cool and dry environment. Protect against frost!	
Density	Sika® Pyroplast® Wood T Primer	~1.00 g/cm ³
	Sika® Pyroplast® Wood T	~1.33 g/cm ³
	Sika® Pyroplast® Wood Top T New	~0.95 g/cm ³
Flash point	Sika® Pyroplast® Wood T Primer	Not applicable
	Sika® Pyroplast® Wood T	Not applicable
	Sika® Pyroplast® Wood Top T New	~ + 48°C
Solid content	Sika® Pyroplast® Wood T	(ISO 3251)
	Primer	
	~65 % by weight	
	Sika® Pyroplast® Wood T	
	~63 % by weight	
	Sika® Pyroplast® Wood Top	
	T New	~48 % by weight

SYSTEM INFORMATION

System	Tie coat	Sika® Pyroplast® Wood T Primer
	(depending on wood surface):	
	Intumescent coating:	Sika® Pyroplast® Wood T
	Topcoat (mandatory):	Sika® Pyroplast® Wood Top T New

APPLICATION INFORMATION

Consumption	1 x 60 g/m ² Sika® Pyroplast® Wood T Primer (depending on wood surface)
	1 x 300 g/m ² Sika® Pyroplast® Wood T (Woodclass D > 13 mm)
	or
	1 x 350 g/m ² Sika® Pyroplast® Wood T (Woodclass D > 10 - 12 mm)
	plus
	1 x 50-60 g/m ² Sika® Pyroplast® Wood Top T New (mandatory)
	Consumption rates are based on fire performance according EN 13501-1
B	EN 13823 FIGRA ≤ 120 W/s and LFS < edge of specimen and THR _{600s} ≤ 7,5 MJ and EN ISO 11925-2 Exposure = 30 s Fs < 150 mm within 60 s
s1	SMOGR _A ≤ 30 m ² / s2 und TSP _{600s} ≤ 50 m ²
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.

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Relative air humidity

Max. 80 %, application temperature shall be at least ≥ 3 K above dew point.

During application and drying of total Sika® Pyroplast® Wood coating system including Sika® Pyroplast® Wood Top T New as well as transportation special protection measures must be taken against weathering.

For Sika® Pyroplast® Wood T Primer, Sika® Pyroplast® Wood T with topcoat Sika® Pyroplast® Wood Top T New and Sika® Pyroplast® Wood Top T New.

Substrate temperature

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

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

For Sika® Pyroplast® Wood T Primer, Sika® Pyroplast® Wood T and Sika® Pyroplast® Wood Top T New.

Substrate moisture content

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 stabilize at in use.

For Sika® Pyroplast® Wood T Primer, Sika® Pyroplast® Wood T and Sika® Pyroplast® Wood Top T New.

Waiting time to overcoating

Overcoatable with topcoat Sika® Pyroplast® Wood Top T New after approx. 48 hours.

Prior to further applications possible contaminations must be removed.

Drying time

Drying/Curing

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

Sika® Pyroplast® Wood T Primer:

Touch dry	after ~0.5 h
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Through dry	after ~2 h
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Sika® Pyroplast® Wood T with topcoat Sika® Pyroplast® Wood Top T New and Sika® Pyroplast® Wood Top T New:

Touch dry	after ~2 h
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Through dry	after ~24 h
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Different temperatures, different relative humidity and different fire protection coating thickness have an influence on drying time.

Do not stack timber components treated with Sika® Pyroplast® fire protection coatings.

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.

FURTHER INFORMATION

Various advisory notes.

For further information please consult Sika or visit us at www.sika.de

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

SUBSTRATE PREPARATION

Substrate must be dry, free from dust, oil, wax, grease, dirt, resin, etc.; Existing coatings with poor adhesion have to be completely removed, i.e. with solvent-based paint stripper or to be sand 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. The moisture content of the timber should be below 15 %.

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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 T Primer may be used to allow sufficient adhesion or avoid diffusion of wood ingredients on resinous wood.

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 that the selected application method will provide the requested results

Airless spraying:

- Material shall be applied undiluted
- Airless spray equipment with pressure ratio $\geq 30 : 1$
- Filters should be removed
- Hose diameter not below $\frac{3}{8}$ "
- Whipline $\frac{1}{4}$ " may be used
- Recommended nozzle sizes:
Sika® Pyroplast® Wood T: 0.28 - 0.38 mm (0.011 - 0.015 inch)
Sika® Pyroplast® Wood Top T New: 0.28 - 0.38 mm (0.011 - 0.015 inch)
- Solvent resistant hoses must be used for Sika® Pyroplast® Wood Top T New!

Apply two coats of Sika® Pyroplast® Wood T to a load of 175 g/m² each coat, in order to obtain a very smooth finish by cutting down wooden fibres, light sanding after the first coat may be recommended (i. e. with 150 grade paper).

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
- Application of two coats of Sika® Pyroplast® Wood T to a load of 175 g/m² each coat is recommended

CLEANING OF EQUIPMENT

Sika® Pyroplast® Wood T Primer and Sika® Pyroplast® Wood T:

Immediately after use with warm water.

Sika® Pyroplast® Wood Top T New:

Immediately after use with Sika® Unitherm® Thinner.

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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