

# Sika<sup>®</sup> Unitherm<sup>®</sup> Platinum-30

## DECLARATION OF PERFORMANCE No. 90564862

1	<b>UNIQUE IDENTIFICATION CODE OF THE PRODUCT- TYPE:</b>	90564862
2	<b>INTENDED USE/S</b>	EAD 350402-00-1106: ETA 20/1160:2020 Reactive Coating for the Fire Protection of Steel Elements
3	<b>MANUFACTURER:</b>	Sika Services AG Tüffenwies 16-22 8064 Zürich Switzerland
4	<b>AUTHORISED REPRESENTATIVE:</b>	
5	<b>SYSTEM/S OF AVCP:</b>	System 1
6b	<b>EUROPEAN ASSESSMENT DOCUMENT:</b>	EAD 350402-00-1106
	European Technical Assessment:	ETA 20/1160 of 18/12/2020
	Technical Assessment Body:	FIRES, S.R.O.
	Notified body/ies:	0761, 1396

## 7 DECLARED PERFORMANCE/S

Sika® Unitherm® Platinum-30 has been assessed as being compatible with the following primers and primer sets:

Primers				
Primer Reference	Primer Type	Tested Nominal Primer DFT (mm)	Permitted Primer Thickness Range (mm) <sup>1</sup>	
			Minimum	Maximum
Sika® Permacor® 2706 EG <sup>2</sup>	Two component epoxy <sup>2</sup>	0.060	0.030	0.090
Sika® Permacor®-1705 <sup>2</sup>	Solvent containing sing component zinc-phosphate primer <sup>2</sup>	0.060	0.030	0.090
SikaCor® EG1 VHS <sup>2</sup>	Epoxy zinc phosphate <sup>2</sup>	0.080	0.040	0.120
SikaCor® Zinc R <sup>2</sup>	Zinc-rich epoxy <sup>2</sup>	0.080	0.040	0.120
SikaCor® Zinc W <sup>2</sup>	Zinc-rich epoxy (water based) <sup>2</sup>	0.080	0.040	0.120
(SikaCor® Zinc ZS + Sika® Permacor® 2706 EG) <sup>3</sup>	SikaCor® Zinc ZS: Zinc rich epoxy + Sika® Permacor® 2706 EG: Two component epoxy	(0.060 + 0.060) 0.120	(0.030 + 0.030) 0.060	(0.090 + 0.090) 0.180
(SikaCor® EG Phosphat + SikaCor® EG1 + SikaCor® EG4) <sup>3</sup>	SikaCor® EG Phosphat: Epoxy zinc phosphate + SikaCor® EG1: Epoxy intermediate coat + SikaCor® EG4: A two pack Polyurethane topcoat	(0.120 + 0.120 + 0.120) 0.360	(0.060 + 0.060 + 0.060) <sup>2</sup> 0.180	(0.180 + 0.180 + 0.180) <sup>2</sup> 0.540
SikaCor® Aktivprimer Plus (corroded) <sup>4</sup>	Single component corrosion protection primer containing zinc phosphate	0.100	0.050	0.150
Sika® Poxicolor (corroded) <sup>4</sup>	Two component epoxy primer containing zinc phosphate	0.100	0.050	0.150
Sika® Permacor® 2706 EG (galvanised) <sup>5</sup>	Two component epoxy	0.050	0.025	0.075
No primer coat <sup>6</sup> (ISO 8501-1 Sa2.5)	-	-	-	-

DFT: Dry Film Thickness

<sup>1</sup> The permitted theoretical minimum and maximum DFTs cannot be less or exceed the DFT for each product as recommended by the manufacturer. The practical information given by the manufacturer must be followed

<sup>2</sup> The generic approval is applicable to other primers from the same generic group provided the thickness is within the tolerance given. The approval does not cover galvanized steel

<sup>3</sup> The approval is applicable to specific primer/primer sets. The approval does not cover galvanized steel

<sup>4</sup> The approval is applicable to specific primer. Steel pate was shot blast cleaned to ISO 8501-1 Sa2.5 and left outside before got covered with rust but no pitting visible.

<sup>5</sup> The approval is applicable to specific primer only. The approval covers galvanized steel. Galvanised steel surface preparation specifications are available from Sika Service AG

<sup>6</sup> The Sika® Unitherm® Platinum-30 has been tested and assessed as being capable of maintaining fire resistance performance when applied directly to steel sections blast cleaned to ISO 8501-1 Sa2.5 or equivalent.

<sup>7</sup> Each product should be increase/reduced as recommended by the manufacturer in order to ensure compatibility

### Declaration of Performance

Sika® Unitherm® Platinum-30  
90564862  
2021.05, ver. 02

Sika® Unitherm® Platinum-30 has been assessed as being compatible with the following topcoats:

Top Coats				
Top Coat Reference	Top Coat Description	Tested Nominal Top Coat DFT (mm)	Permitted Top Coat Thickness Range (mm)	
			Minimum	Maximum <sup>2</sup>
Sika® Unitherm® Top S <sup>1</sup>	A high build single pack	0.060	0.060	0.090
Sika® Unitherm® Top W <sup>1</sup>	A single pack water based topcoat	0.054	0.054	0.081
Sika® Permacor® 2330 <sup>1</sup>	A two pack acrylic-polyurethane topcoat	0.080	0.080	0.120
Sika® Permacor® 2230 VHS <sup>1</sup>	A two pack acrylic-polyurethane topcoat	0.090	0.090	0.135
SikaCor® EG-4 <sup>1</sup>	A two pack polyurethane topcoat	0.096	0.096	0.144
SikaCor® EG-5 <sup>1</sup>	A two pack polyurethane topcoat with good gloss and colour retention	0.080	0.080	0.120
SikaCor® PUR Color <sup>1</sup>	A two pack silky matt topcoat based on aliphatic polyurethane containing zinc phosphate as an active pigment	0.060	0.060	0.090
Sika® Permacor®-2707 <sup>1</sup>	A two pack epoxy topcoat with high mechanical resistance and excellent chemical resistance to aqueous and alkaline exposure	0.060	0.060	0.090
SikaCor® EG-120 <sup>1</sup>	A two pack Polyurethane topcoat	0.120	0.120	0.180
SikaCor® 305W <sup>1</sup>	A two pack Polyurethane topcoat (water based)	0.040	0.040	0.060

DFT: Dry Film Thickness

<sup>1</sup> The approval is limited to the specific product.

<sup>2</sup> The permitted theoretical maximum DFT cannot exceed the DFT for each product as recommended by the manufacturer. The practical information given by the manufacturer must be followed

The reactive coating system has been assessed as having passed the requirements for durability according to EAD 350402-00-1106, with and without the following topcoats. The following table summarises passed requirements for durability for Sika® Unitherm® Platinum-30:

Top Coat Reference <sup>1</sup>	Topcoat Description <sup>1</sup>	Approved Top Coat Colours	Durability Approvals Based On The Carried Out Testing			
			Type Z <sub>2</sub>	Type Z <sub>1</sub>	Type Y	Type X
No Top Coat	-	-	✓	✓	✓	✓
No Top Coat (galvanized steel) <sup>2</sup>	-	-	✓	✓	✓	✓
Sika® Permacor® 2330	A two pack Acrylic-Polyurethane topcoat	All	✓	✓	✓	✓

<sup>1</sup> The approval is limited to the specific product.

<sup>2</sup> The reactive coating performance was evaluated on a galvanized steel. Galvanised steel surface preparation specifications are available from Sika Service AG

#### Declaration of Performance

Sika® Unitherm® Platinum-30  
90564862  
2021.05, ver. 02

Sika® Unitherm® Platinum-30 protection systems have been also assessed as having passed the requirements for the following environmental conditions:

Testing <sup>1</sup>	Primer Reference	Primer Type	Tested Nominal Primer DFT (µm)	Top Coat Reference	Topcoat Description	Tested Nominal Top Coat DFT (µm)
C3medium, 120h Water Condensation – ISO 12944-6: 2018	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	-	-	-
C3medium, 240h Neutral salt spray – ISO 12944-6: 2018	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	-	-	-
C3high, 240h Water Condensation – ISO 12944-6: 2018	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	-	-	-
C4medium, 240h Water Condensation – ISO 12944-6: 2018	Sika® Permacor®-2706 EG	Two component epoxy primer	60	Sika® Permacor®-2330	A two pack Acrylic-Polyurethane topcoat	90
C5high, 720 h Water Condensation – ISO 12944-6: 2018	Sika® Permacor®-2706 EG	Two component epoxy primer	60	Sika® Permacor®-2330	A two pack Acrylic-Polyurethane topcoat	90
C5high, 1440 h Neutral salt spray – ISO 12944-6: 2018	Sika® Permacor®-2706 EG	Two component epoxy primer	60	-	-	-
Immersion in mineral sprit, 168h – ISO 2812-1	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	-	-	-
Immersion in 10% NaOH aqueous solution (Alkali), 168h – ISO 2812-1	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	-	-	-
C5high, 720 h Water Condensation – ISO 12944-6: 2018	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	-	-	-
Immersion in 10% H <sub>2</sub> SO <sub>4</sub> aqueous solution (Acid), 168h – ISO 2812-1	No primer coat (ISO 8501-1 Sa2.5) <sup>2</sup>	-	-	Sika® Permacor®-2330	A two pack Acrylic-Polyurethane topcoat	60
Immersion in 10% H <sub>2</sub> SO <sub>4</sub> aqueous solution (Acid), 168h – ISO 2812-1	Sika® Permacor®-2706 EG	Two component epoxy primer	40	Sika® Permacor®-2330	A two pack Acrylic-Polyurethane topcoat	110
Waterjetting <sup>3</sup>	Sika® Permacor® -2706 EG	Two component epoxy primer	60	-	-	-

DFT: Dry Film Thickness

<sup>1</sup> The approval is limited to the specific protection system.

<sup>2</sup> The Sika® Unitherm® Platinum-30 has been applied directly to Steel substrates blast cleaned to ISO 8501-1 Sa2.5

<sup>3</sup> The coated plate of 0.25m<sup>2</sup> in size was positioned at 45° angle and cleaned with continuous movements over the coated surface from approximately 200mm distance with ambient temperature water at 200 bar pressure for the duration of 3 minutes

Product: Reactive coating		Intended use: Fire protection of structural steel elements
Assessment method	Essential characteristic	Product performance
<b>BASIC WORKS REQUIREMENT 2: SAFETY IN CASE OF FIRE</b>		
EN 13501-1	Reaction to fire	B – S2, d0
EN 13501-2	Resistance to fire	(R15 to R45) - IncSlow (I/H Beams and Columns) (see Annex A)
<b>BASIC WORKS REQUIREMENT 3: HYGIENE, HEALTH AND THE ENVIRONMENT</b>		
Manufacturer's declaration and EN 16516	Content, emission and or release of dangerous substances	Product specification doesn't contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the SGDS  Use categories: IA1 and S/W2 Results for reactive coating to EN 16516 after 28 days: TVOC (15µg/m <sup>3</sup> ) and TSVOC (<5µg/m <sup>3</sup> )

#### Declaration of Performance

Sika® Unitherm® Platinum-30  
90564862  
2021.05, ver. 02

BASIC WORKS REQUIREMENT 4: SAFETY AND ACCESSIBILITY IN USE		
EAD 350402-00-1106 Clause 2.2.4 and Clause 2.2.5	Adhesion and Durability	<ul style="list-style-type: none"> <li>• Primer and topcoat compatibility</li> <li>• Type X durability</li> <li>• Type Y durability</li> <li>• Type Z<sub>1</sub> durability</li> <li>• Type Z<sub>2</sub> durability</li> </ul>
EAD 350402-00-1106 Clause 2.3.5	Fingerprint	Thermoanalytical analyses (TG), Infrared spectroscopy analyses (IR), density and non-volatile content

**8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR -  
SPECIFIC TECHNICAL DOCUMENTATION**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name: Thomas Kerkmann  
Function: Head of Industrial Coatings

Name: Robin Rohleder  
Function: Market field Manager Fire protection

At Vaihingen on 31 May 2021

At Vaihingen on 31 May 2021





.....

.....

End of information as required by Regulation (EU) No 305/2011

**FULL CE MARKING**

 21	
Sika Service AG	
DoP no. 90564862	
EAD 350402-00-1106; ETA 20/1160:2020	
Notified Body 0761, 1396	
Reactive Coating for the Fire Protection of Steel Elements	
Reaction to fire	Class B – s2, d0
Fire resistance	(R15 to R45) – IncSlow (I/H Beams and Columns)
Release of dangerous substances	Product specification doesn't contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the SGDS
Adhesion and Durability	<ul style="list-style-type: none"> <li>• Primer and topcoat compatibility</li> <li>• Type X durability</li> <li>• Type Y durability</li> <li>• Type Z<sub>1</sub> durability</li> <li>• Type Z<sub>2</sub> durability</li> </ul>
Durability	<ul style="list-style-type: none"> <li>• C3med, 120h Water Condensation – ISO 12944</li> <li>• C3med, 240h Neutral salt spray – ISO 12944</li> <li>• C3high, 240 h Water Condensation – ISO 12944</li> <li>• C4med, 240 h Water Condensation – ISO 12944</li> <li>• C5high, 720 h Water Condensation – ISO 12944</li> <li>• C5high, 1440 h Neutral salt spray – ISO 12944</li> <li>• Immersion in mineral spirit, 168h – ISO 2812-1</li> <li>• Immersion in 10% NaOH aqueous solution, 168h – ISO 2812-1</li> <li>• Immersion in 10% H<sub>2</sub>SO<sub>4</sub> aqueous solution, 168h – ISO 2812-1</li> <li>• Waterjetting for 3 minutes at 200 bar pressure at ambient temperature</li> </ul>
Fingerprint	Thermoanalytical analyses (TG) and Infrared spectroscopy analyses (IR)

<http://dop.sika.com>

**Declaration of Performance**  
 Sika® Unitherm® Platinum-30  
 90564862  
 2021.05, ver. 02

---

## ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

---

### LEGAL NOTE

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 products 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.

---

**Sika Deutschland GmbH**  
Industrial Coatings  
Rieter Tal  
71665 Vaihingen/Enz  
Germany  
[www.sika.com](http://www.sika.com)

**Declaration of Performance**  
Sika® Unitherm® Platinum-30  
90564862  
2021.05, ver. 02

7/7