Sika[®] Permacor[®] 2807/HS-A

Solvent free, conductive, hot spray epoxy coating

Product Sika Permacor 2807/HS-A is a solvent free 2-component epoxy coating. Application with 2-component hot-spray equipment. Description The coating has high physical strength, with good abrasion and impact resistance. It is approved by the building authorities of German DIBt for the internal lining of steel tanks designed for the storage of flammable liquids. Meets the requirements of TRbF 401/402. It is approved to STS-M67 for the internal lining of tanks – as required by Bundeswehr and NATO for the storage of flammable liquids. It is certified in compliance with KIWA-Directive BRL-K779/03 for the internal lining of steel tanks designed for the storage of flammable liquids. VNIIST-Certificate / internal lining of tanks designed for the storage of crude oil, light and dark petroleum products and aviation gasoline. VNIIST-Certificate / internal lining of pipes for the transportation of water/oil/gas mixtures. It is inert and harmless in accordance with German food legislation. **Fields of application** Permacor 2807/HS-A is ideally suited for the corrosion protection of steel, stainless steel, aluminum, concrete and cement faced surfaces in direct contact with various media (see " Resistance List Tank"). The principal use of Permacor 2807/HS-A is the internal lining of tanks, containers, silos, secondary containment structures, waste water treatment facilities and pipelines. Permacor 2807/HS-A is also particularly suitable for the coating of old and highly eroded and pitted steel tanks - without extra laminate reinforcement. **Properties** High chemical resistance to water, aggressive effluents, flammable and nonflammable liquids, as well as a wide range of chemicals and foodstuffs Conductive High diffusion resistance Very good adhesion to steel, stainless steel, aluminum and mineral surfaces Economical, one-coat application Traceable references and track record for a service life of more than 20 years Product Data Colour shades Grey, approx. RAL 7024 (component A: light grey / component B: dark grey) Finish Glossy Packaging Component A: Sika Permacor 2807/HS-A (A): 200; 25; 1 and 0,1 kg Component B: Sika Permacor 2800/HS-A (B): 200; 25; 0,5 and 0,05 kg Shelf-Life In originally sealed containers in a cool and dry environment: min. 2 years. Systems Coating systems Steel (coating for flammable liquids): 1 x Sika Permacor 2807 HS-A (min. 500 microns up to max. 1800 microns) Steel, stainless steel and aluminum:



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	1 x Sika Permacor 2807 HS-A (min. 500 microns up to max. 2500 microns)						
	<u>Concrete:</u> 1-2 x Sikagard 720 EpoCem 1 x Sikafloor 156						
	1 x Sika Permacor 2807 HS-A (min. 1000 microns up to max. 2500 microns)						
Surface preparation	Steel:						
	Remove all weld spatters, and then grind welds and joints in accordance with EN 14879-1.						
	Blast cleaning to Sa $2^{1}/_{2}$ according to EN ISO 12944, part 4.						
	Free from dirt, oil and grease. Average roughness depth $R_Z \ge 50$ microns.						
	Stainless steel and aluminum:						
	Sweep blast in accordance with ISO 12944-4. Only non-metallic abrasives should bused.						es should be
	Average roughness depth $R_Z \ge 50$ microns. Ensure substrate is free from contaminants detrimental to adhesion. <u>Concrete:</u>						
	Surfaces to be coated must meet recognized building standards, i.e. be solid, load- bearing and free from contaminants detrimental to adhesion. Pull-off adhesion strength in accordance with DIN 1048 should be >1.5 N/mm ² on average with the lowest reading no less than 1.0 N/mm ² . For areas subject to heavy mechanical loading, the average value should be >2.0 N/mm ² and the lowest reading no less than 1.5 N/mm ² . Apply suitable compatible undercoats and observe recommended overcoating intervals.						
Technical data							
Material consumption							
	Specific	Solids	content	Theoretic	al material-c	consumption	/coverage
			Theoretical material-consumption/coverage without loss for medium dry film thickness of				
	Gravity Approx. % liquid						
	approx.	by	by	dry	wet	approx.	approx.
	kg/L	vol.	weight	microns	microns	kg/ m ²	m ² /kg
		VOI.	weight	500	500	0.75	1.33
	1.5	100	100			1.5	
				1000	1000	1.5	0.67
Mixing ratio in parts							
by weight:	100 : 50 (2 : 1)						
by volume:	100 : 66 (1.5 : 1)						
(Components A : B)							
Resistance:	Chemicals:						
	See "Resista		ink" resp. up	on request.			
	Temperature: Dry heat up to approx. + 100°C Abrasion resistance: In accordance with ASTM D 4060 (Taber Abraser): 235 mg/100 U (load: 500 g; disc S 33) Buchholz hardness:						
	In accordan	In accordance with ISO 2815: approx. 100					
Porosity test	Due to the electrical conductivity of the coating, this may only be assessed visually.						
Electrical resistance:	Max. 1 x 10 ⁶	³ Ω					
Hints on application	on						
Preparation of material							
	Do not add any thinner.						
Application method	Hot spraying:						
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	undiluted,						
	use special airless hot-spray machine,						
	spray tip:	≥ 0,53 mm (0,021 inch)					
	spray angle:	e.g. 50°					
	temperature at spray tip: +	-65°C to +70°C					
	Repair:						
	undiluted,						
	sanding or sweep blasting of	of small areas! Clean and prepare damaged areas by of areas to be coated and ensure thorough removal of the cold mixed material should be applied by trowel.					
Application temperature	Min. + 10°C (ambient and s	urface)					
Relative humidity	Max. 80% relative humidity	(surface temperature \geq 3°C above the dew point).					
	When conditions approach these critical limits, the use of heating and dehumidification equipment is essential.						
Potlife	At + 20°C approx. 30 minu	tes					
	At + 60°C approx. 5 minutes						
Drying time at 20°C	Touch dry after 6 hours						
	walkable after 12 hours						
	full mechanical and chemical cure:						
	after approx. 2 day	ys at +23 °C					
	after approx. 3 day	ys at +12 °C					
	after approx. 5 day	ys at +7 °C					
Waiting time between	Max. 4 h at + 20°C In case of longer waiting times the surface must be activated by sweep blasting.						
coats							
Overcoating	With itself. Other products - refer to Sika.						
Final drying time	Full mechanical and chemical resistance after 7 days at +20°C.						
	Containers or pipes can be sealed immediately after the coating has been applied. The coating hardens without the need for ventilation!						
Advice on first filling:	Before the first filling of newly coated tanks or pipes with potable water or foodstuffs, it is recommended that the vessel is completely filled and rinsed with water for at least 1 day.						
Cleaning of implements	Sika Permacor Cleaner HS						
Important notice							
Precautionary Measures:	Please observe safety instructions on container labels and local regulations. Dangerous Goods regulations have to be followed.						
incusures.	During application in closed rooms, pits and shafts etc., sufficient ventilation must be provided. Keep away open light, including welding.						
	In poorly lit rooms only elec equipment must be spark-p	tric safety lamps are permitted. The installed ventilation roof.					
	should not be allowed to en	state, the thinner and the products contaminate water and ter drains or be spilled onto open ground. All spillages moved according to local Health and Safety regulations.					
	Further details are containe of accidents".	d in our instructions "Health protection and the prevention					
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tes Actual measured data may vary due to circumstances beyond our control.						
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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.

Sika (China) Ltd. No.28 Jingdong Road, Suzhou Industrial Park, JiangSu,P.R.China Postal Code: 215121 Tel: (86) 512 6273 2888 Fax: (86) 512 6287 7070 http://chn.sika.com





The product is manufactured under a HKQAA ISO9001/ISO14001 certified quality/environmental management system.

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