Product Data Sheet Edition 7.8.2010 Sikagard[®] 307 W

Sikagard[®] 307 W

Single component, waterborne modified acrylic/polyurethane dispersion based surface coating with a gloss finish

Description	Sikagard 307 W is a single component waterborne polyurethane based coating, designed with specific hygiene functionality. The in film preservation is designed to remain permanently locked in and active ensuring no growth of surface micro-organisms on the Sikagard 307 W. Sikagard 307 W is available in white and 30 other standard colors.					
Where to Use	 Internal walls and ceiling Pharmaceutical Food & Beverage Bio-tech manufacturing Hospitals Clean rooms Laboratories 	s of environments that	require contin	nuously sanitary conditions.		
Advantages	 Single component water Hard finish and impact; s Gloss, easy clean finish Non-yellowing Fast development of phy Rapid drying, same day One coat finish (airless s Leach resistant in film pr 	scratch and abrasion re vsical strength re-coat if necessary spray)	sistant			
Chemical Resistance	Standard 10% solutions of cause breakdown of the Si		uding Nitric A	Acid AND Caustic Soda, failed t		
	Typical Data					
	Chemical Base	Waterborne condic/polyuret	hana aanalumar d	lianomian		
	VOC Content	Waterborne acrylic/polyuret	nane copolymer d	Ispersion		
		0.22 lb/gal. or 81.7 g/l				
	Water Vapor Transmission	perms @ 4 mil DFT	and approad of flag			
	Fire Retardancy Excellent resistance to surface spread of flame. Accelerated Weathering ASTM G53-88- 5,000 hours Q.U.V. ('B' lamps) – no discoloration, chalking or crazing.					
	Accelerated Weathering	Slight loss of gloss.		s) – no discoloration, chalking or crazing.		
	Tensile Elongation	(BS EN ISO 527-3-Unreinfo	,			
	 @ 24 hours - maximum stress (tensile load at break) = 6.8 N/mm² or 987 psi elongation at break = 110% @ 48 hours - maximum stress (tensile load at break) = 7.2 N/mm² or 1045 psi elongation at break = 87% @ 72 hours - maximum stress (tensile load at break) = 13.2 N/mm² or 1920 psi elongation at break = 50% 					
	Adhesion	Coarse Concrete: Smooth Concrete: Brick:	261 psi 754 psi 551 psi	1.8 MPa (N/mm²) 5.2 MPa (N/mm²) 3.8 MPa (N/mm²)		
		Cement cladding board: Steel:		1.2 MPa (N/mm²) 4.9 MPa (N/mm²)		
	Tensile Strength	Cement cladding board:	174 psi 710 psi	1.2 MPa (N/mm²) 4.9 MPa (N/mm²)		
	Tensile Strength Density	Cement cladding board: Steel:	174 psi 710 psi N ISO 527-3 – Un	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) nreinforced)		
	•	Cement cladding board: Steel: 2326 psi (16 N/mm ²) (BS El	174 psi 710 psi N ISO 527-3 – Un	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) nreinforced)		
	Density	Cement cladding board: Steel: 2326 psi (16 N/mm ²) (BS El 10.43 lbs per gallon (~1.26	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) nreinforced)		
	Density Hardness (Persoz)	Cement cladding board: Steel: 2326 psi (16 N/mm ²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC y volume.	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) nreinforced)		
	Density Hardness (Persoz) Solids Content	Cement cladding board: Steel: 2326 psi (16 N/mm²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degree	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC y volume. e (Classified as "g	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) nreinforced) O 2811-1)		
	Density Hardness (Persoz) Solids Content Gloss	Cement cladding board: Steel: 2326 psi (16 N/mm²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degree	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC v volume. e (Classified as " Classified as "Clas er than a minor re	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) oreinforced) O 2811-1) gloss" to BS EN 13300:2001) ss 1" to BS EN 13300:2001)		
	Density Hardness (Persoz) Solids Content Gloss Opacity (Contrast Ratio)	Cement cladding board: Steel: 2326 psi (16 N/mm ²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degree >99.5% (130 micron film) (0 No appreciable change other	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC v volume. e (Classified as " Classified as "Clas er than a minor re- s QUV-B)	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) nreinforced) O 2811-1) gloss" to BS EN 13300:2001) ss 1" to BS EN 13300:2001) duction in gloss.		
	Density Hardness (Persoz) Solids Content Gloss Opacity (Contrast Ratio) Resistance to QUV	Cement cladding board: Steel: 2326 psi (16 N/mm²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degree >99.5% (130 micron film) (C No appreciable change other (ASTM G154-04:2500 hours)	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC v volume. e (Classified as "Clas er (Classified as "Clas er than a minor re- s QUV-B) ne" to BS EN 1330	1.2 MPa (N/mm²) 4.9 MPa (N/mm²) preinforced) O 2811-1) gloss" to BS EN 13300:2001) ss 1" to BS EN 13300:2001) duction in gloss. 00:2001)		
	Density Hardness (Persoz) Solids Content Gloss Opacity (Contrast Ratio) Resistance to QUV Surface Granularity	Cement cladding board: Steel: 2326 psi (16 N/mm²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degree >99.5% (130 micron film) (C No appreciable change othe (ASTM G154-04:2500 hours <0.01 mm (Classified as "fir 113 mg weight loss (ASTM	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC v volume. e (Classified as "Clas er than a minor re- s QUV-B) ne" to BS EN 1330 I D 4060, CS10 W pht penetration at 2	1.2 MPa (N/mm ²) 4.9 MPa (N/mm ²) preinforced) D 2811-1) gloss" to BS EN 13300:2001) ss 1" to BS EN 13300:2001) duction in gloss. 00:2001) /heel, 1000 g load) 2000 grams longer cure (7 days) –		
	Density Hardness (Persoz) Solids Content Gloss Opacity (Contrast Ratio) Resistance to QUV Surface Granularity Abrasion Resistance	Cement cladding board: Steel: 2326 psi (16 N/mm²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degre >99.5% (130 micron film) (C No appreciable change othe (ASTM G154-04:2500 hours <0.01 mm (Classified as "fir 113 mg weight loss (ASTM Short cure (overnight) – slig	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC v volume. e (Classified as "Clas er than a minor re- s QUV-B) ne" to BS EN 1330 I D 4060, CS10 W pht penetration at 2	1.2 MPa (N/mm ²) 4.9 MPa (N/mm ²) preinforced) D 2811-1) gloss" to BS EN 13300:2001) ss 1" to BS EN 13300:2001) duction in gloss. 00:2001) /heel, 1000 g load) 2000 grams longer cure (7 days) –		
	Density Hardness (Persoz) Solids Content Gloss Opacity (Contrast Ratio) Resistance to QUV Surface Granularity Abrasion Resistance Scratch Resistance	Cement cladding board: Steel: 2326 psi (16 N/mm²) (BS El 10.43 lbs per gallon (~1.26 125 49% by weight and 36% by >60 gloss units at 60 degree >99.5% (130 micron film) (C No appreciable change othe (ASTM G154-04:2500 hours <0.01 mm (Classified as "fir 113 mg weight loss (ASTM Short cure (overnight) – slig penetration at 3000 grams,	174 psi 710 psi N ISO 527-3 – Un kg/l) (DIN EN ISC v volume. e (Classified as "Clas er than a minor res c QUV-B) ne" to BS EN 1330 I D 4060, CS10 W pht penetration at 2 surface marking e	1.2 MPa (N/mm ²) 4.9 MPa (N/mm ²) preinforced) D 2811-1) gloss" to BS EN 13300:2001) ss 1" to BS EN 13300:2001) duction in gloss. 00:2001) /heel, 1000 g load) 2000 grams longer cure (7 days) – evident.		



How to Use Surface	The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance mold, grease and surface treatments. Remove loose material mechanically, or high pressur
	washing. All surfaces to be coated should be clean and free from dampness. Prefill any stat cracks with a proprietary flexible latex/acrylic caulk. Consult Sika Technical Service.
	New Drywall: Minimum level 4 finish, prime with Sika Bonding Primer thinned 10% with wate (Note: 307 W cannot be applied directly over Sika Bonding Primer. An intermediate coat of Sikagard 203 W is required at 6-8 mils.)
	 Painted Surfaces: Always ensure that the existing paint is fully adhered and sound. Abrad surface using 100 grit screen or paper. Epoxy paints, bitumen paints must be abraded using 10 grit and primed using Sika Bonding Primer, followed by a 6-8 mil coat of Sikagard 203 W. A painted surfaces that are abraded require cleaning. CMU Block, poured in place concrete: Spalled, flaking or damaged areas should be repaired using compatible materials. Sikagard 307 W can be used as a primer when diluted with 250 used.
	water. Sikagard 203 W can be used as a block filler on new block. Like surfaces that requires a fi parge coat should use Sikagard EpoCem 75 (consult product data sheet). Sikagard 307 W ca be applied directly to cured/sanded EpoCem 75.
	Cement screeds, plaster asbestos cement, lining boards: For absorbent substrates Sikagar 307 W may be diluted with 25% of clean water as a primer to kill suction. Dusty/friable substrates seal with Sika Bonding Primer and an immediate coat of Sikagard 205 W to stabilize.
	Concrete: Ensure new concrete is at least 10 days, preferably 28 days old, with moisture content of 20% WME or less. Prime using Sikagard 307 W diluted 25% with water.
	Wood: (Damp Free maximum 18% wood moisture equivalent)
	Apply Sikagard 307 W directly. If wood is prone to raised grain then prime with Sikagard 30 W diluted with 25% water, when dry, lightly sand and apply Sikagard 307 W to correct filr thickness.
	Metals: Remove rust to bright metal. Apply Sikalastic Metal Primer WB or Sikalastic Metal Primer, use 2 coats on badly pitted or blast prepared surfaces. Non-ferrous metals can be wire brushed to remove oxidation products, prime as above. Degrease or use proprietary metal pretreatment fluid on galvanized if greasy.
	Plastics/Insulation: Most plastics can be coated directly. Use Sika Bonding Primer on sel skinning or slab-stock polyurethane/polystyrene foams. Product is not suitable for open fibrou insulation. Dusty/friable substrates require sealing with Sika Bonding Primer and an immediat coat of Sikagard 205 W to stabilize.
	Overcoating Sikagard 307 W: Clean off all contamination lightly abrade with 100 grit and applic Sikagard 307 W directly.
Mixing	Pre-mix material using a drill and jiffy blade (300-450 rpm)
Application	Rollers - Product may be applied by short to medium 1/4" - 3/8" pile synthetic rollers. Tw
	coats are recommended. Rollers are also used during reinforcement embedment.
	Brushes - A wide soft nylon or bristle brush, Two coats are recommended, ideally product i
	applied with second coat at 90° to first. Spray Equipment - Most types of industrial airless spray equipment e.g. GRACO ULTR
	are suitable, pressure 3000 p.s.i. tip size .11 to .15 and 60° fan angle. Although the product i
	designed with built in flow, the finer tip sizes provide the smoothest finish.
Tooling & Finishing	Note: All reinforcements using Flexitape and Reemat GFM must use Sikagard 203 W as the base coat.



Cure Mechanism	@ 50°F/60% R.H.: Touch dry 45 mins, through cure 1 hour.				
	 @ 68°F/55% R.H.: Touch dry 30 mins, through cure 45 mins. @ 86°F/50-60% R.H.: Touch dry 15-20 mins, through cure 30-45 mins. Application of Sikagard 307 W over Sikagard 307 W 				
	50°F (10°C)	4 hours	7 days		
	68°F (20°C)	1 hours	7 days		
	86°F (30°C)	1 hours	7 days		
	Application of Sikagard 307 W over Sikagard 203 W				
	Substrate Temp. Minimum Maximum				
	50°F (10°C)	24 hours	7 days		
	68°F (20°C)	4 hours	7 days		
	86°F (0°C)	4 hours	7 days		
Coverage	400 sq.ft./gal., 4 mils				
Limitations					
Limitations			lated conditions. Always ensure adequate ventilation.		
			nal paints (thinning for primer use is permissible).		
			imum temperature of 40°F (4°C) or a maximum of		
		nout the application °C) above the dew p	period. Conditions must remain a minimum of 40°F		
	 Protect from frost a 				
	 Product is not suita 				
			b be used internally, however if used externally the		
	-	•			
	natural weathering process of the material may cause slight darkening of the colors and progressive loss of gloss with time. All colors are intermixable.				
		-			
	If there is any question as to whether or not the product will adhere to an existing coating or				
	surface, a test patch should be applied and evaluated for compatibility and adhesion.				
		•	ght surface texture when using standard coverage		
	rates. If a smoother finish is required apply 3 thinner coats to achieve desired DFT.				
	Previous coat must be completely dry prior to overcoating.				
	■ Ensure entire surface is fully dried before proceeding. Crazing may occur when overcoating				
	undried surfaces or when material is applied in a heavy application.				
	Good ventilation is required for Sikagard 307 W to dry properly.				
	Gloss is effected by humidity and temperature.				
	The incorrect assessment and treatment of cracks may lead to a reduced service life and				
	reflective cracking.				
	If additional heating is required, do not use gas, oil, paraffin or other fossil fuel heaters;				
	these methods produce large quantities of carbon dioxide and water vapor, which may				
	adversely affect the finish. Use only electric powered warm air blower systems.				
		ald be allowed to cur	e/hydrate for a minimum of 10 days and preferably 28		
	days.				
CAUTION			ixture), Butyl Carbitol (CAS: 112-34-5) and N-methyl-		
	2-pyrrolidone (CAS: 872-50-4). Causes eye/skin/respiratory irritation. Harmful if swallowed. WARNING: This product contains a chemical known to the State of California to cause				
	hirth defects or oth				
	birth defects or oth				
First Aid	Eyes – Hold eyelids	apart and flush thor	oughly with water for 15 minutes. Skin – Remove		
First Aid	Eyes – Hold eyelids contaminated clothing	apart and flush thor g. Wash skin thoro	oughly with water for 15 minutes. Skin – Remove ughly for 15 minutes with soap and water. Inhalation		
First Aid	Eyes – Hold eyelids contaminated clothin – Remove to fresh ai	apart and flush thor g. Wash skin thoro ir. Ingestion – Do r	oughly with water for 15 minutes. Skin – Remove ughly for 15 minutes with soap and water. Inhalation not induce vomiting. Dilute with water. Contact a		
	Eyes – Hold eyelids contaminated clothin – Remove to fresh ai physician. In all ca	apart and flush thor g. Wash skin thorou r. Ingestion – Do r ses, contact a phy	oughly with water for 15 minutes. Skin – Remove ughly for 15 minutes with soap and water. Inhalation not induce vomiting. Dilute with water. Contact a sician immediately if symptoms persist.		
Handling and	Eyes – Hold eyelids contaminated clothin – Remove to fresh ai physician. In all ca Avoid direct contact.	apart and flush thor g. Wash skin thorou r. Ingestion – Do r ses, contact a phy Wear personal pro	oughly with water for 15 minutes. Skin – Remove ughly for 15 minutes with soap and water. Inhalation not induce vomiting. Dilute with water. Contact a sician immediately if symptoms persist. rective equipment (chemical resistant goggles/gloves/		
	Eyes – Hold eyelids contaminated clothin – Remove to fresh ai physician. In all ca Avoid direct contact. clothing) to prevent of	apart and flush thor g. Wash skin thorou r. Ingestion – Do r ses, contact a phy Wear personal pro- direct contact with s	oughly with water for 15 minutes. Skin – Remove ughly for 15 minutes with soap and water. Inhalation not induce vomiting. Dilute with water. Contact a sician immediately if symptoms persist.		
Handling and	Eyes – Hold eyelids contaminated clothin – Remove to fresh ai physician. In all ca Avoid direct contact. clothing) to prevent of doors and windows	apart and flush thor g. Wash skin thorou ir. Ingestion – Do r ses, contact a phy Wear personal pro- direct contact with s during use. Use a	oughly with water for 15 minutes. Skin – Remove ughly for 15 minutes with soap and water. Inhalation not induce vomiting. Dilute with water. Contact a sician immediately if symptoms persist. rective equipment (chemical resistant goggles/gloves/ kin and eyes. Use only in well ventilated areas. Open		



Clean Up	Clean brushes and spray equipment with water. Dried Sikagard 307 W can be removed with paint stripper, cellulose thinners, xylene or toluene. Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.
Additional Info	Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on www.sikafloorusa.com. Proper material application is the responsibility of the user. Site visits made by Sika personnel are for making technical recommendations only and not for supervising or providing quality control.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY

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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical proper-ties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and as-sumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR APARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDERANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537



1-800-933-SIKA NATIONWIDE