Sikagard®-Wallcoat N

2-part water dispersed epoxy coating

Product Description	Sikagard®-Wallcoat N is a two part, coloured, water dispersed epoxy resin.			
Uses	 Coloured coating for interior wall surfaces For concrete or cementitious substrates Suitable for production facilities, storage and logistic areas etc. 			
Characteristics / Advantages	 Good chemical and mechanical resistance Good bond on damp surfaces Good opacity Water vapour permeable Decontaminable High resistance to carbonation Water dilutable Easy application Spray application is possible Easy to clean Good sag resistance Odourless 			
Approval / Standards	Decontamination property: "Excellent" according to DIN 24415. Fire behaviour according to DIN 4102, class B1.			
Product Data	- 110 2011a110a1 according to 2111 1102, stace 211			
Form				
Appearance / Colours	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid			
	Available colour shades: White			
	Other colour shades on request.			
	Under direct sun light there may be some discolouration and colour variation, this has no influence on the function and performance of the coating.			



Packaging	Part A: Part B: Part A+B:	14.60 kg containers 5.40 kg containers 20 kg ready to mix			
Storage					
Storage Conditions / Shelf-Life	undamaged			operly in original, unopened and ns at temperatures between +5°C and	
Technical Data					
Chemical Base	Epoxy, wate	r dispersed			
Density	Part A: ~ 1.58 kg/l Part B: ~ 1.07 kg/l Mixed resin: ~ 1.39 kg/l				
		alues at +23°C			
Solid Content		olume) / ~ 64% (by v	weight)		
Viscosity	1030 mPas	at +23 ℃ (part A+B)			
Mechanical / Physical Properties					
Abrasion Resistance	94 mg (CS 1	0/1000/1000) (14	days / +23°C	(DIN 53 109, Taber Abrader Test)	
Resistance					
Chemical Resistance	Resistant to	many chemicals. Ple	ease ask for a	a detailed chemical resistance table.	
Thermal Resistance		,			
	Exposure*			Dry heat	
	Permanent			+50℃	
	Short-term ma	ax. 7 d		+80℃	
	Short-term ma	ax. 12 h		+100℃	
	Short-term moist/wet heat* up to +80 ℃ where exposure is only occasional (i.e. during steam cleaning etc.)			exposure is only occasional	
	*No simultaneous chemical and mechanical exposure.				
System Information					
System Structure	Primer:				
	On gypsum	plaster boards*:	1 x Sikafloor	[®] -156 + 20 wt% Thinner C	
	On mortars/l	Renders:		[®] -156 + 20 wt% Thinner C ard [®] -Wallcoat N + 5 wt% water	
	On concrete	:		[®] -156 + 20 wt% Thinner C ard [®] -Wallcoat N + 5 wt% water	
	Seal coat:		2 - 3 x Sikag or 1 - 2 x Sik	ard [®] -Wallcoat N (roller application) agard [®] -Wallcoat N (spray application)	
	* For the application onto gypsum plaster boards, please refer to 'Notes on Application / Limitations'.				

2

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Application Details				
Consumption / Dosage				
	Coating System	Product	Consumption	
	Primer	Sikafloor®-156+ 20 wt% Thinner C or	~ 0.08 kg/m ²	
		Sikagard [®] -Wallcoat N + 5 wt% water	~ 0.15 – 0.20 kg/m ²	
	Seal coat	2 - 3 x Sikagard®-Wallcoat N (roller application)	0.15 - 0.25 kg/m ² per coat	
		1 - 2 x Sikagard [®] -Wallcoat N (spray application)	0.15 - 0.28 kg/m ² per coat	
	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile ,variations in level and wastage etc.			
Substrate Quality	CONCRETE/MORTARS/RENDERS			
	The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².			
	The substrate must be clean, dry and free of all contaminants such as dirt, oi grease, coatings and surface treatments, etc.			
Substrate Preparation	Concrete substrates must be prepared mechanically using grinding equipment, abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.			
	Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.			
	Repairs to the concrete/mortar/render substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor [®] , SikaDur [®] and Sikagard [®] range of materials.			
	The substrate has to be primed or levelled in order to achieve an even surface.			
	High spots must be removed by e.g. grinding.			
	All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.			
Application Conditions / Limitations				
Substrate Temperature	+10 °C min. / +30 °C max.			
Ambient Temperature	+10 °C min. / +30 °C max.			
Substrate Moisture	≤ 6% pbw moisture content.			
Content	Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.			
	No rising moisture according to ASTM (Polyethylene-sheet).			
Relative Air Humidity	75% r.h. max.			
Dew Point	Beware of conder	nsation!		

Sikagard®-Wallcoat N

The substrate and uncured floor coating must be at least $3\,^\circ\!\!\mathrm{C}$ above dew point to reduce the risk of condensation or blooming on the coating finish.

3

Application Instructions					
Mixing	Part A: part B = 73: 27 (by	weight); 65 : 3	5 (by volume))	
Mixing Time	Prior to mixing, stir part A mechanically. When all of part B has been added to p A, mix continuously for 2 minutes until a uniform mix has been achieved.				
	To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.				
Mixing Tools	Sikagard®-Wallcoat N must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.				
Application Method / Tools	Prior to application, confirm substrate moisture content, relative humidity and developint.			relative humidity and dew	
	If > 6% pbw moisture content, Sikagard®-720 EpoCem® may be applied as a T.M.B. (Temporary Moisture Barrier) system. **Primer:* Make sure that a continuous, pore free coat covers the substrate. Apply the Sikafloor® primer by brush or roller. **Wall coating:* Apply Sikagard®-Wallcoat N by roller. **Sikagard®-Wallcoat N can also be applied by airless spray (spray pressure ~ 300 bar, nozzles with a diameter of 0.53 mm / 0.021 inch and a spray angle 60°).				
Cleaning of Tools		Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.			
Potlife					
	Temperatures		Time		
	+10℃		~ 150 minutes		
	+20℃	+20℃		~ 90 minutes	
	+30 °C ~ 60 min		~ 60 minutes		
Waiting Time /	Before applying Sikagard [®] -\	Wallcoat N on S	Sikafloor [®] -156	6 allow:	
Overcoating	Substrate temperature	Minir	mum	Maximum	
	+10℃	24 h	ours	4 days	
	+20℃	12 h	ours	2 days	
	+30°C	6 hc		1 day	
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	Before applying Sikagard [®] -1	valicoat N on S	Sikagard°-Wa	alicoat N allow:	

Substrate temperature	Minimum	Maximum
+10℃	180 minutes	7 days
+20℃	180 minutes	7 days
+30℃	150 minutes	7 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

4

Sikagard®-Wallcoat N

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Notes on Application / Limitations

Do not apply Sikagard[®]-Wallcoat N on substrates with rising moisture.

Do not apply Sikagard[®]-Wallcoat N on gypsum plaster boards, if in use for wet areas, such as shower rooms etc.

Freshly applied Sikagard[®]-Wallcoat N must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on the surface with the primer.

Always ensure adequate fresh air ventilation when using Sikagard $^{\text{@}}$ -Wallcoat N in a confined space to avoid curing problems.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

For exact colour matching, ensure the Sikagard®-Wallcoat N in each area is applied from the same control batch numbers.

For spray application the use of protective health & safety equipment is mandatory!

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Curing Details

Applied Product ready for use

Temperature	Tack free time	Full cure
+10℃	~ 20 hours	~ 10 days
+20℃	~ 6 hours	~ 7 days
+30℃	~ 3 hours	~ 5 days

Note: Times are approximate and will be affected by changing ambient conditions.

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.

Health and Safety Information

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

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.

EU Regulation 2004/42

VOC - Decopaint Directive According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type wb) is 140 / 140 g/l (Limits 2007 / 2010) for the ready to use product.

The maximum content of **Sikagard®-Wallcoat N** is < 140 g/l VOC for the ready to use product.



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