

PRODUCT DATA SHEET

Sikagard®-65 WN MY

WATER DISPERSED EPOXY COATING FOR CURING AND PROTECTION OF CONCRETE

DESCRIPTION

Sikagard®-65 WN MY is a solvent free, water dispersed, two part epoxy resin for curing and protection of precast concrete segments immediately after demoulding. It is designed and formulated to meet high durability demands in aggressive environments.

USES

Sikagard®-65 WN MY is used to cure and protect precast concrete segments, as an efficient alternative to conventional curing and protection procedures. Segments can be produced without any micro-cracks and due to the penetration of the epoxy resin into the concrete surface, a barrier against the ingress of aggressive ions can be obtained.

CHARACTERISTICS / ADVANTAGES

- Easy and fast to apply with a roller
- Water dispersed
- Solvent free (odourless)
- Good hiding properties / cosmetic finish
- Fast curing at high temperature
- Pore sealer
- Increased chemical resistance
- Increased abrasion resistance
- Tools can be cleaned with water

PRODUCT INFORMATION

Chemical base	Water dispersed epoxy resin		
Packaging	Part A	22.5 kg pail	
	Part B	7.5 kg pail	
	Part A+B	30 kg set	
Appearance / Colour	<ul style="list-style-type: none"> ▪ White ▪ Light grey ▪ Grey ▪ Other colour available upon request 		
Shelf life	12 months from the date of production		
Storage conditions	Store in original unopened packaging in dry conditions at temperatures between +5 °C and +30 °C. Keep away from direct sunlight.		
Density	Part A + B	~1.4 kg/l (at +20 °C)	(ASTM D1475-98 (2008))
Solid content by volume	~52 %		(ASTM D2697-03 (2014))

TECHNICAL INFORMATION

Tensile Adhesion Strength	To concrete	> 1.5 N/mm ² (Concrete failure)	(ASTM D4541:2002, Method A, Type 1 Tester)
Permeability to Water Vapour	0 mm at 3 bars water pressure for 72 hours		(DIN 1048)
Diffusion Resistance to Water Vapour	~3768 μH ₂ O	(BS EN 1062-2 / BS EN ISO 7783:2011)	

APPLICATION INFORMATION

Mixing ratio	Part A : B = 3 : 1 by weight		
Consumption	Primer	1 coat x Sikagard®-65 WN MY diluted with 8–10 % clean water	~100 g/m ²
	Subsequent coats	Sikagard®-65 WN MY (not diluted)	100–250 g/m ² per coat
Sikagard®-65 WN MY should be applied in minimum 2 coats (not including primer). The number of coats is dependent on the Dry Film Thickness (DFT) requirement. Please consult our Technical Sales Representative for more information.			
Substrate Temperature	+70 °C max.		
Pot Life	~35 minutes (Caution! End of pot life is not visually noticeable)		
Curing time	At 85 % r.h.,		
	Temperature	Minimum curing time before transportation of segments	Fully cured
	+20 °C	~12 hours	~10 days
	+30 °C	~4 hours	~7 days
Waiting Time / Overcoating	Minimum	Maximum	
	~4 hours (at +30 °C)	3 days	
The overcoating time is dependent on the ambient temperature, relative humidity and wind conditions.			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Surface shall be dry and must be clean of loose cement particles.

MIXING

Stir Part A with an electric mixer at low speed (600 rpm). Then add Part B and continue mixing until a homogeneous colour is achieved (approx. 2–3 minutes).

APPLICATION

Sikagard®-65 WN MY may be applied either with a brush or a roller. It is not recommended to spray Sikagard®-65 WN MY.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

IMPORTANT CONSIDERATION

- When applying in 2 coats, the second coat may only be applied after the first coat is tack-free.
- Waiting time between coats must not be more than 3 days.
- The end of pot life cannot be visually or physically detected. Therefore, the specified pot life must be timed and observed strictly.

BASIS OF PRODUCT DATA

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

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 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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