

## PRODUCT DATA SHEET

# Ronadeck® Resin Bound Surfacing

### PERMEABLE RESIN BOUND PAVING SYSTEM

#### DESCRIPTION

Ronadeck® Resin Bound Surfacing (RBS) is a resin bound aggregate system suitable for pedestrian traffic. Designed to be trafficable, durable and highly decorative the system can also promote the good health of the subsoil by allowing rainwater to drain directly to ground rather than to the sewage system. The system is based around specially graded natural aggregate blends and a high performance resin manufactured specially for Hong Kong conditions. RBS is intended for refurbishments, new construction and general landscaping applications both indoor and outdoor. With appropriate attention to design RBS can be laid onto most sound substrates such as concrete, asphalt, compacted sub-base, no fines concrete and in some circumstances tiles and block-work.

#### USES

Ronadeck® Resin Bound Surfacing may only be used by experienced professionals.

- Paths, pavements, cycle tracks and steps
- Patio's and swimming pool surrounds
- Shop floors / water features etc

#### CHARACTERISTICS / ADVANTAGES

- Decorative
- Trafficable
- Permeable
- Potentially seamless
- UV Stable / Non Yellowing
- Non toxic
- Fast curing
- Can achieve high slip resistance
- Easy to Install

#### PRODUCT INFORMATION

<b>Packaging</b>	114.5 kg pack
<b>Shelf life</b>	6 months from the date of production
<b>Storage conditions</b>	Stored properly in undamaged and unopened original sealed packaging in the temperature range +5 °C to +30 °C. Protect from direct sunlight and frost.

## Product Declaration

Permeability	Approx. 5–100 litre/m <sup>2</sup> /min
Compressive Strength	Approx. 5–15 MPa (CS1 : 2010 : Section 12)
Transverse Breaking Load	Approx. 50–200 N/mm (BSEN 1344 : 2002)
Tensile Strength	Approx. 5–12 N/mm <sup>2</sup> (BSEN 1344 : 2002)
Slip Resistance	> 45 USRV (BS EN 1341 : 2001)

Remark : The above data could be varied depend on the aggregate mix.

## APPLICATION INFORMATION

Ambient Air Temperature > 5 °C

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate should be clean, dry, free of oil, grease and other removable contaminants. New concrete should be left for at least 14 days before application.

### MIXING

Pre-mix the coarse aggregate in a suitable forced action pan mixer. Pre mix all of the Part A and Part B resin pack using a drill and paddle. Use a medium speed and try to avoid introducing too much air into the mix. This is especially important when there is high humidity. Mixing should take between 30 second to 1 minute. Pour the pre-mixed resin into the forced action mixer and blend for 2 to 3 minutes until all of the aggregate is evenly coated with resin. If fine aggregate is included in the mix add this after the resin has completely coated the coarse aggregate and mix for an additional 1 minute.

### APPLICATION

Spread the aggregate at the desired location using a rake or other leveler to achieve an un-compacted level of between 25 % and 50 % greater than the desired thickness of the system. Use a screed trowel with a compacting force to achieve the desired level and a smooth finish. The minimum application thickness after finishing should be 15 mm. Protect the system from trafficking, rain, dirt and contaminants for at least 4 hours.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with thinner immediately after use. Hardener and/or cured material can only be removed mechanically.

## IMPORTANT CONSIDERATIONS

Ensure all equipment is clean before beginning work as the wet resin will collect dust and become stained by dirty equipment. To create a seamless finish always maintain a fresh un-compacted edge of material during installation.

### Skills and Resources

Careful consideration must be given to provision of manpower and equipment suitable and sufficient for the project involved. Remember that a seamless installation is in effect a continuous installation so any break in installation that results in laying fresh material against set material will be visible in the finished screed. The skills required to install RBS are very similar to those required to professionally install and finish a cement sand screed, still there are idiosyncrasies in the product that come with training and experience for example:

- Different blends will compact by different degrees during installation
- Finishing with a solvent wiped trowel will influence the surface appearance

## 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 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.

## 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 Material Safety Data Sheet (MSDS) 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: [marketing@hk.sika.com](mailto:marketing@hk.sika.com)  
Website: [www.sika.com.hk](http://www.sika.com.hk)



**Product Data Sheet**  
**Ronadeck® Resin Bound Surfacing**  
February 2020, Version 01.02  
020812040010000003