

PRODUCT DATA SHEET

Ronabond® Concrete C45

Prepacked C45 Concrete

DESCRIPTION

Ronabond® Concrete C45 is a prepacked concrete used for repairing or recasting concrete. Ronabond® Concrete C45 is suitable for casting structural concrete to horizontal, vertical and overhead positions when proper formwork is constructed.

USES

- Casting concrete to horizontal, vertical and overhead positions
- Replacement of ready mix concrete
- Structural concrete or wearing screed

CHARACTERISTICS / ADVANTAGES

- Excellent durability
- Excellent workability for easy of compaction
- Prepacked for consistent quality
- Simple to mix and apply

APPROVALS / STANDARDS

- Comply with Code of Practice for Structural Use of Concrete 2013 from Hong Kong Buildings Department

PRODUCT INFORMATION

Product Declaration	Grade of Concrete	C45
	Min. Characteristic Strength	45 N/mm ²
	Designed Slump	100 mm
	Max. Aggregates Size	10 mm
	Cement Content	480 kg/m ³
	Water/Cement Ratio	≤0.48
	Chloride Content by Mass of Cement	0.06 %

Packaging	25 kg bag of powder and 10 kg bag of aggregates
Shelf Life	9 months from the date of production
Storage Conditions	Stored properly in undamaged and unopened original sealed packaging. Protect from direct sunlight, moisture and frost.
Density	Approx. 2310 kg/m ³ (wet density)

TECHNICAL INFORMATION

Compressive Strength	Typically > 59 MPa at 28 days
-----------------------------	-------------------------------

APPLICATION INFORMATION

Yield	Approx. 58 packs per m ³
Mixing Ratio	3.6–4.0 litres of water per pack

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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Prepare concrete to establish sound substrate and minimum repair depth. Dampen existing concrete surfaces with clean water. Complete the construction of formworks and installation of reinforcement bars if recasting concrete is required.

MIXING

Dry mix the powder and aggregates for each pack of Ronabond® Concrete C45 with mechanical pan mixer. Add 3.6–4.0 litres of water into the mixer and mix all components together until a workable and homogeneous mixture is achieved.

APPLICATION

Apply the well mixed Ronabond® Concrete C45 on to the prepared substrate. Compact the concrete thoroughly into the properly constructed formworks. Observe the standard practice for casting concrete.

CURING TREATMENT

Allow the area to cure properly or consult with Sika's technical department for curing method in severe conditions.

CLEANING OF TOOLS

Clean all tools and equipment with clean water immediately after use.

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.

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
Website: www.sika.com.hk



Product Data Sheet
Ronabond® Concrete C45
July 2024, Version 01.02
020201010060000104

RonabondConcreteC45-en-HK-(07-2024)-1-2.pdf