

PRODUCT DATA SHEET

Sika® CarboDur®-300 Grid

Bi-directional Carbon Fibre grid for Textile Reinforced Mortars

DESCRIPTION

Sika® CarboDur®-300 Grid is a carbon fibre, bi-directional grid. It is part of the Sika® CarboDur® Grid system.

USES

Sika® CarboDur®-300 Grid may only be used by experienced professionals.

Embedded as reinforcement into Sika MonoTop®-3200 Grid or Sika MonoTop®-3260 Grid mortar and used for:

- Reinforcing concrete structures
- Reinforcing masonry walls made of brick, blocks or stone
- Reinforcing infill masonry walls
- Connecting masonry walls to other walls or to reinforced concrete structures
- Repair of cracked masonry walls
- Interior or exterior use

PRODUCT INFORMATION

Construction	Fibre orientation	0° / 90°
	Black fibre grid with patented coating 13 filaments. Grid spacing: 10 cm x 10 cm (centre to centre) in both directions	
Fibre Type	Carbon fibre	
Packaging	Roll width	1,0 m
	Roll length	50 m
Shelf Life	24 months from date of production	

CHARACTERISTICS / ADVANTAGES

- High tensile resistance in both directions
- Economical
- Corrosion resistant
- Easy to handle and embed into mortar

APPROVALS / STANDARDS

- Avis Technique CSTB, No. 3.3/18-965_V1 (issued for Lankostructure Carbogrid)

Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +10 °C and +30 °C. Always refer to packaging	
Dry Fibre Density	1,8 kg/l	
Density	320 g/m ² embedded grid	
Dry Fibre Modulus of Elasticity in Tension	~230 000 N/mm ²	
Dry Fibre Elongation at Break	~1,9 %	(EN ISO 13934-1)

TECHNICAL INFORMATION

Tensile Resistance	> 9500 N/5 cm (grid)	(EN ISO 13934-1)
---------------------------	----------------------	------------------

SYSTEM INFORMATION

System Structure	<ul style="list-style-type: none"> ▪ Sika® CarboDur®-300 Grid ▪ Sika MonoTop®-3200 Grid (for reinforcement of concrete structures) ▪ Sika MonoTop®-3260 Grid (for reinforcement of masonry structures)
-------------------------	---

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.

FURTHER DOCUMENTS

- Sika Method Statement: Sika® CarboDur® Grid System
- Sika MonoTop®-3200 Grid mortar Product Data Sheet.
- Sika MonoTop®-3260 Grid mortar Product Data Sheet.

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

Refer to the Sika Method Statement: Sika® CarboDur® Grid System and Sika MonoTop®-3200 Grid and Sika MonoTop®-3260 Grid Product Data Sheet

SUBSTRATE PREPARATION

Refer to the Sika Method Statement: Sika® CarboDur® Grid System and Sika MonoTop®-3200 Grid and Sika MonoTop®-3260 Grid Product Data Sheet

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Refer to the Sika Method Statement: Sika® CarboDur® Grid System and Sika MonoTop®-3200 Grid/ Sika MonoTop®-3260 Grid mortar Product Data Sheet.

1. Apply the first layer of Sika MonoTop®-3200 Grid/ Sika MonoTop®-3260 Grid mortar to the prepared substrate.
2. Embed Sika® CarboDur®-300 Grid into the 1st wet layer of mortar.
3. While the first layer is still wet, apply a 2nd layer of mortar to completely cover the Sika® CarboDur®-300 Grid.
4. Finish the surface of the 2nd layer of mortar according to project requirements using stainless steel or plastic float.

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
Sika® CarboDur®-300 Grid
July 2021, Version 01.01
020206020010000071

SikaCarboDur-300Grid-en-HK-(07-2021)-1-1.pdf