BUILDING TRUST

PRODUCT DATA SHEET

Sika® CarboDur®-300 Grid

Bi-directional Carbon Fibre Grid for Textile Reinforced Mortars

PRODUCT 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 (for concrete) or Sika® MonoTop®-3260 Grid (for 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.

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).

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.	
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	

Area Density	320 g/m² embedded grid.	
Dry fibre modulus of elasticity in tension	~230 000 N/mm²	
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	▪ Sika® CarboDur®-300 Grid. ▪ Sika® MonoTop®-3200 Grid (for reinforcement of concrete structures). ▪ Sika® MonoTop®-3260 Grid (for reinforcement of masonry structures).

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.

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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.

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited