PRODUCT DATA SHEET

Davco® RM 725

General Purpose Class 25 Fibre Reinforced Repair Mortar

DESCRIPTION

SikaRep®-25 HB is a class 25 cementitious repair mortar, reinforced with polymer fibre for general purpose application.

USES

- The lightweight nature of SikaRep® -25 HB enables very thick layers to be applied in vertical and overhead applications.
- Repairing voids, honeycombing and spalled concrete.

CHARACTERISTICS / ADVANTAGES

- Contain polymer fibre to improve mechincal properties.
- Good workability, easy to apply.
- High build characteristics enable 50 mm to be placed without shuttering.
- Factory preblended product ensures greater on-site quality control.
- Good adhesion
- Non-toxic
- Suitable for rendering

PRODUCT INFORMATION

Chemical Base	Cement based powder
Packaging	18 kg bag
Colour	Concrete grey
Shelf Life	9 months from the date of production.
Storage Conditions	Store in undamged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.
Density	Approx. 1.78 kg/litre if freshly mixed mortar (wet)
Compressive Strength	>25 N/mm2 at 28 days
Tensile Strength	> 1.5 N/mm2 at 7 days

Tensile Adhesion Strength	> 1.5 N/mm2 at 7 days

APPLICATION INFORMATION

Mixing Ratio	Water : Powder = 1:5.45 parts by weight approximately (i.e. approx. 3.3 litre water per 18 Kg bag)
Consumption	Approx. 83 bags/m3 (Depending on concrete surface and application method)
Layer Thickness	Minimum 6 mm/ Maximum 50 mm
Pot Life	Approx. 40 minutes

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.

SUBSTRATE QUALITY

The concrete must be sound, clean and free from oils, grease or surface contaminants. All lose matrials and surface laitance must be removed by high pressure water jet blasting or by other mechanical method. The prepared substrate should be dampened with clean water. Davco® -RM 725 should be applied over a bonding coat slurry (Mix 1 part of SIka® Latex to 1 part of fresh Portland cement by weight). (refer to each data sheet). All featured edges around the area to be repaired should be squared off with an angle grinder and chiselled down to a minimum depth of 10 mm.

MIXING

Pour approx. 3.3 litres clean water into a suitable mixing container and slowly add all the powder while mixing continuously with a mixing paddle attached to a low speed electric drill (max 500 rpm, with power approx. 1000 watt). Thoroughly mix until a smooth, lump free consistency is achieved. A minimum mixing time of 3 minutes is recommended.The water can be adjusted ± 10% to suit the consistency desired.

APPLICATION

While bonding coat of Davco® -RM 725 is still tacky, pack the mortar well into cavity of repair. Use a placing rather than a rendering technique to fill all voids and ensure thorough compaction is achieved. Force the Davco® -RM 725 against the edge of the repair and progressively work towards the centre. For repair in excess of 50 mm thick, apply in layers ensuring that each previous layer is sufficiently hardened and well keyed. If previous layers are over 48 hours old, scabble the surface and dampen. A mix of 1 part of Sika® Latex to 1 part of fresh Portland cement by weight may be use as a bonding slurry bewteen layers. Steel trowel the final layer if required to achieve a smooth, tight finish.

CURING TREATMENT

As with all cementitiuos based mortar, Davco® -RM725 must be protected against direct sunlight and wind while hardening. Cover all exposed mortar with wet hessian, plastic sheeting or use Sika curing compound.

CLEANING OF TOOLS

Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

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 ad-

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apt 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.

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