



Sikafloor[®] - ArmorTop

Metallic Dry Shake Floor Hardener
(Formerly Armorex Armortop)

Technical Data Sheet

DESCRIPTION

Sikafloor - ArmorTop is a metallic dry shake hardener for concrete comprising of cement, hard metallic aggregates, compatible admixtures and pigment.

Sikafloor - ArmorTop provides a non-oxidising, hard wearing, metallic dry shake topping for monolithic floors. When sprinkled and trowelled into fresh wet concrete floors, it forms a coloured, wear resistant, smooth surface.

USES

- * Warehouses
- * Distribution Centres
- * Factories
- * Engineering Workshops
- * Loading Docks
- * Vehicle Workshops
- * Museums

ADVANTAGES

- * High wear resistance rating
- * Impact resistance
- * Increased resistance to oils and grease
- * Cost effective, long life floor
- * Maintenance free
- * Dust-proof
- * Fast track application
- * Available in colours
- * Quality assured factory blending
- * Fibre suppressant for concrete slabs.

Technical Data (typical)

Colour: Refer to colour chart and current price list for availability and minimum order quantities.

Material consumption: **Sikafloor - ArmorTop:** 5-7 kg/m²
Sikafloor ProSeal: 10-12 m²/litre

MECHANICAL PROPERTIES:

Abrasion resistance: Conforms to BS8204 'Special' Class

FIRE: **Sikafloor - ArmorTop** is not flammable, does not emit toxic fumes in fire.

All above values are approximate.

GENERAL

- * To ensure a high standard of colour consistency it is essential that the floor laying operation is as clean and protected an environment as possible.
- * Every effort should be made to ensure an even application of **Sikafloor - ArmorTop**. Correct timing and trowelling techniques are essential.
- * Detailed material proposals are available on request from **Sika Limited**.

SUBSTRATE PREPARATION

The concrete deliveries should be of consistent quality. A concrete slump in the range 75 to 110 mm will normally give best results. The slab should be of good quality concrete with a minimum water/cement ratio consistent with the production of a fully compacted slab. The compressive strength should be a minimum of 25 N/mm². Use of **Sikament**[®] or **Sika**[®] **Viscocrete**[®] super plasticisers is advised to ensure the optimum quality of concrete and where fibres are used, maximum dispersion within the mix.

APPLICATION

When an automatic spreader is used in conjunction with a laser screed, **Sikafloor - ArmorTop** is spread evenly onto the concrete immediately after screeding at 5-7 kg/m² in one application.

With manual application the surface bleed water should be removed or allowed to evaporate and **Sikafloor - ArmorTop** should be sprinkled onto the screeded concrete evenly in 2 stages: (1st stage 3-4 kg/m² - 2nd stage 2-3 kg/m²). Care should be taken to apply the powder to avoid creating ripples etc. in the concrete surface. Overall application rate by manual application 5-7 kg/m². Casting **Sikafloor - ArmorTop** powder carelessly or further than 2 metres from point of casting will reduce the consistency of finish.

COMPACTION

The first stage should be worked into the slab followed immediately with the sprinkling on of the second measurement of **Sikafloor - ArmorTop**.

Sikafloor - ArmorTop results in the slab surface becoming stiff more quickly than usual. Careful trimming should take place along the edges where adjoining slabs are to be poured.

Final finishing to close pores and remove undulations can be achieved either by hand or powered trowel.

CURING

Cure and seal **Sikafloor - ArmorTop** immediately after finishing using **Sikafloor ProSeal** (refer to separate technical data sheet).

JOINTS

After completing the saw cuts, clean off any residual lubricant slurry without delay. Joints can be filled with the appropriate **Sikaflex** sealant in accordance with the floor requirements.

PROTECTION

To maintain the most pleasing finish for hand-over protect the surface during subsequent site operations to prevent damage whilst the curing process continues.

IMPORTANT NOTES

- * The application of the dry shake powder should not be carried out in strong draughts.
- * Concrete substrate characteristics such as water content and cement quality may induce slight colour variations.
- * Slip resistance can be enhanced through chemical ageing. Contact **Sika Limited** for advice.
- * Colour variation during the drying out period is normal for this system and is to be expected.
- * Dry shake hardeners give a finish to concrete with some colour variation from point to point due to the natural variability of the concrete onto which they are applied.
- * Cleaning and subsequent maintenance of the **Sikafloor - ArmorTop** should be performed in accordance with our recommendations. (Available on request from **Sika Limited**).

PACKAGING

Packed in 25 kg bags

CONSUMPTION

Approximately 5-7 kg/m². (These figures do not allow for surface porosity, profile or wastage).

STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+5°C - +30°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

SIKA LIMITED

Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ

Tel: 01707 394444 Email: sika@uk.sika.com

Fax: 01707 329129 www.sika.com

