



# DURAMITE DRY

## SHAKE-ON FLOOR HARDENER



ECO FRIENDLY



DURABLE



ECONOMICAL

### DESCRIPTION

Davco Duramite Dry is a non-metallic cementitious floor hardener which is supplied in a dry powder form.

Application of Davco Duramite Dry is by dry shake method over freshly placed concrete or cement sand topping, giving the floor a hard wearing surface finish.

### USES

Davco Duramite Dry forms a hardened and wear resistance surface on concrete or cement toppings in locations subject to heavy traffic movements. It is designed for use in following areas:

- Car parks
- Warehouses
- Manufacturing plants
- Hangersand
- Industrial floors

### ADVANTAGES

- It is non-metallic, providing an exceptionally durable surface that will not rust when wet.
- Improve resistance to oil and water penetration.
- Non-skid, hard wearing and easy to maintain.
- Moh hardness of aggregates greater than 7.
- Improves abrasion resistance of concrete by more than 30%.

### TECHNICAL DATA

Flexural Strength  
ASTM C348 : 2014 13.4 N/mm<sup>2</sup>

Compressive Strength  
ASTM C348 : 2014 50 N/mm<sup>2</sup>

Stiffening Time  
BS EN 1015 : PART 9 : 1999 1.0 N/mm<sup>2</sup> - 160 mins  
2.0 N/mm<sup>2</sup> - 210 mins  
(Method A)

MOH's Hardness 8  
Adopted SS 301 : 1985

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

### MIXING & APPLICATIONS

The concrete shall be placed and screeded using proper tools and equipment to prevent segregation. Further consolidate and level the slabs with a bull float or darby before any bleed water appears. The slabs shall be floated before the application of the first shake. All floating operations shall be done in two directions perpendicular to each other.

The first shake, which consists 2/3 of the total, shall be broadcasted evenly across the surfaces after bleed water has disappeared or been removed. The first shake shall be floated onto the surfaces starting on the floors adjacent to walls, columns, etc. Continue floating to bring moisture up through the Davco Duramite Dry hardener and embed the hardener onto the surfaces of the slab.



BUILDING TRUST





# DURAMITE DRY

(cont.)

The second shake shall be broadcasted on the surfaces at right angle to the first and floated as above. After the concrete has been allowed to stiffen (check to sustain foot pressure with no greater than 6mm indentation), the first trowelling operation shall start.

Additional trowelling shall continue until desired finish is obtained.

## Rate of Application

Light Traffic	3 kg/m <sup>2</sup>
Medium Traffic	5 kg/m <sup>2</sup>
Heavy Traffic	7 kg/m <sup>2</sup>

## Curing & Sealing

The normal methods of curing for concrete shall be applied always.

## Protection

Davco Duramite Dry treated floors shall be protected from abuse and damage during construction stage.

## Joints

Joints shall be provided as per normal construction practice or in accordance in the Consultant's recommendation.

## PRECAUTIONS

- The application of Davco Duramite Dry must not be carried out in strong wind or in dry conditions.
- Do not use concrete where some cement has been replaced by fly ash, as this makes the mix sticky and less workable.
- Variations in concrete characteristics such as water content and cement may lead to slight colour variations.
- Dry shake hardeners give a finish to concrete with some colour variation across the floor due to the natural variability of the concrete onto which they are applied.

- Colour variation during the drying out period is normal for this system and is to be expected.
- Every effort must be made to ensure an even application of Davco Duramite Dry. Correct timing and trowelling techniques are essential.
- At low relative humidity (below 40 %), efflorescence can appear on the surface. At high relative humidity (above 80 %), bleeding, slower curing and hardening can occur and extended finishing operations be required.
- Shrinking joints are to be created within two days. Expansion joints are reflected in the surface of the floor.
- As a consequence of repeated power trowelling, which brings tension into the surface, fine cracks may appear on the floor. This observable fact is typical for all power trowelled concrete surfaces and does not have negative impact on the floor performance.

## PACKAGING

Available in 25 kg bag.

## SHELF LIFE

Shelf life of up to 12 months from the date of manufacture, when stored in a dry place free from moisture contact.

## HEALTH & SAFETY

Davco Duramite Dry is non-hazardous. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention. Refer to safety data sheet.

### Disclaimer

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website [www.sika.com.sg](http://www.sika.com.sg)

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Updated Dec 2022



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