

# FloArm Hard Q

(Formerly known as MYK TOP 150)

Dry shake Monolithic Non-metallic surface Hardener



## TECHNICAL DATA SHEET

### Product Description

FloArm Hard Q is a ready to use Non Metallic floor and surface hardener, it is a factory blended powder containing special hard wearing aggregates. FloArm Hard Q is a blend of port land cement and special additives which produces material easy to trowel into fresh wet concrete. FloArm Hard Q provides a dense non-porous surface which is extremely hard wearing and abrasion resistant. It can be applied for wet rooms as well as outdoor applications.

### Uses

FloArm Hard Q provides a good abrasion resistant concrete surface by dry shake method which ensures monolithic bonding with the fresh laid concrete

Recommended for the following area

- Loading and unloading bays,
- Machine shops,
- Packing areas,
- Storage area,
- Work shops

### Features and Benefits

Non Metallic Does not rust

Easy to trowel into the fresh surface concrete

Reduces Surface wear which are non-dusting

Extend the life of the flooring with increased Impact and abrasion resistance

Monolithic bond with the base concrete

Facilitates easy cleaning

Suitable for repairs of old floors and toppings for new floor

The surface density is high, increased resistance to Oil and grease penetration

Economical

### Application Method

#### Substrate requirement & Application:

##### Base concrete:

The base concrete should have minimum cement content of 300 Kgs/cm<sup>2</sup>. The concrete mix should be designed to minimize segregation and bleeding with free W/C ratio less than 0.50. The concrete should be pumpable with minimum slump of 80mm to 100mm. Use of MYK Arment water reducing concrete Admixtures is recommended

##### Broadcasting:

Level the freshly poured concrete with suitable mechanical equipment and smoothen it with mechanical tool like trowel etc. Before commencement of the application, the base concrete should be checked by pressing thumb hard on the surface, it should leave an impression of 3 to 5 mm depth.

The application is made in two stages

1) The first application is made using 50% to 70% of the required material. It is evenly broadcasted manually on the Concrete surface and when the material or surface becomes dark by absorbing the moisture from the concrete the first application can be floated.

Wooden floats or power trowels with disc can be used. Care should be taken that it is not over floated.

2) The second application is made immediately after by evenly broadcasting the balance material and when the surface becomes dark by absorbing the Concrete surface moisture has darkened with the absorption of water it shall be floated in the same way as before.

3) Final finishing shall be carried out after the surface has sufficiently stiffened to close any pores and to remove any disc marks.

4) While applying FloArm Hard Q at the edges of the concrete floor or, at the end of bays, extra precaution should be taken by way of sprinkling more material and finishing it smoothly with a steel trowel. This is an additional protection particularly to bay edges where the reaction due to heavy impact is more.

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The time of application is very important in order to derive full benefits. If FloArm Hard Q is applied too early, it will absorb water and may sink to the bottom. If application is delayed, no moisture from the concrete surface will be available from the concrete to hydrate FloArm Hard Q, resulting in poor pitted surface. As a general guidance the application should be made within 1 hour depending on the temperature and humidity.

#### Curing:

Proper Curing of Concrete floor is essential to ensure physical properties. Water curing by ponding is recommended for 7 days.

#### Technical property

Appearance	Grey Powder
Compressive Strength, N/mm <sup>2</sup> (ASTM C109) @ 0.14 W/P ratio	3 day – 30.9 7 day – 44.7 28 days – 58.1
Abrasion Resistance (IS : 1237)	150% increase in abrasion resistance compared to control
Moh's hardness	Aggregate in FloArm Hard Q have Moh's Hardness not less than 7

#### Consumption

Application rate Kg/M<sup>2</sup> Intended traffic use Avg Wear (IS1237-1980)

7 kgs	Heavy	<2mm
5 Kgs	Medium	>2<3.5mm
3 kgs	Light	>3.5<4mm

#### Packaging

25 kg pack

#### Storage and Shelf Life

12 months if stored in cool dry shaded condition in original sealed pack

#### Health & Safety

FloArm Hard Q should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken



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#### Product Categories Available



#### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability 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 & purpose. MYK Arment 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.

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