

FloArm Hard L

(Clear)

(Formerly known as MYK TOP L 400-CLEAR)

Chemical consolidating agent for concrete and screeds



TECHNICAL DATA SHEET

Product Description

FloArm Hard L is a low viscosity liquid based on lithium silicate. FloArm Hard L penetrates deeply into the surface zone of concrete and cementitious screeds and reacts to form insoluble calcium silicate hydrate in the existing pores. Treated surfaces have a matt sheen and reduced porosity.

Uses

- Increasing hardening
- Continuously rising abrasion resistance
- Intensified sheen and colour
- Inhibits crack formation
- Weather resistant
- Inhibits frost damage
- Water vapour permeable
- VOC free
- No surface protection necessary

Features and Benefits

FloArm Hard L is used for the durable hardening of cementitious areas e.g. in

- Production areas
- Storage areas
- Cool rooms
- Car parks
- Aircraft hangars
- Warehouses
- Food industry

Application Methodology

Step no 1: Substrate Preparation:

The area to be treated must be:

- Dry to matt damp without puddles, sound, load bearing with a good key.
- Free from separating and adhesion inhibiting substances such as e.g. dust, laitance, grease, rubber marks, paint residues etc.
- Free from post treatment materials (evaporation protection).

Notes:

Fresh concrete does not require any preparation. It must be able to take foot traffic and it may not show signs of moisture films. Agents to protect against evaporation may not be applied before using FloArm Hard L. Use suitable means to prepare the substrate dependant on its condition such as e.g. sweeping, vacuuming, brushing, planing, high pressure water jetting. The following minimum requirements for the substrate are to be fulfilled:

- Concrete quality: min. C 20/25
- Screed quality: min. EN 13813 CT-C25-F4

Step no 2: Product Preparation:

FloArm Hard L is delivered ready for use.

Method of Application: FloArm Hard L is applied by spray techniques to the fresh concrete/screed.

- 1) Substrate preparation - see above.
- 2) FloArm Hard L is applied evenly and until pores are filled in one process
- 3) Applied material is then evenly distributed with a fine bristled broom or rubber squeegee avoiding the formation of puddles.
- 4) Allow applied material to dry.

Cleaning:

Thoroughly clean work tools with water immediately after use.

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Technical Data

Basis	Lithium silicate
Colours	Transparent
Density	1.19 +/- 0.02 gm/cc at 27°C
Application Temperature	Min. +2°C, max. +50°C
Minimum cure Temperature	+5°C
Foot traffic	After approx. 1 to 2 hours at +23°C
Max. Hardness	After 7 days at +23°C

Consumption

Smooth concrete: minimum 100 - 200 ml/m² dependant on the porosity of the substrate.

Concrete with Dryshake: min. 200 ml/m² dependant on the porosity of the substrate.

Packaging

FloArm Hard L is available in 20 Kgs and 230 Kgs containers.

Storage and Shelf Life

12 months in the original unopened container when stored dry and cool above +10° C.

Health & Safety

FloArm Hard L 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

Notes:

- After application the surface must look wet for approx. 15 to 20 minutes. Rapid drying (permeation) will require further material application.
- Excess material does not necessarily need to be removed as dried out material (normally after 1 - 2 hours) changes into a grey powder, which can be disposed off later by brushing or vacuuming.
- Material that has not penetrated after 20 minutes can be washed away with water and removed with a floor cleaning machine with vacuum attachment.
- The treated surface is ready for use after 1 to 2 hours. The final strength is achieved after 7 days and a further sheen effect forms over 30 to 90 days.
- In order to achieve an immediate sheen effect, use the following methods: (method 1 achieves the sheen effect faster).
 - 1) Dry polishing: polish the surface in both directions with a floor grinding machine. Use 800 grit diamond abrasive pads or
 - 2) Wet polishing: polish the surface in both directions using a little water and a floor grinding machine (175 - 300 rpm). Use 120 - 150 grit abrasive pads.

Physiological Behaviour and Protective Measures:

Once cured FloArm Hard L is harmless

Important advice:

- In high air temperatures it is important to pre-wet the substrate thoroughly with clean water. FloArm Hard L can be applied as soon as the substrate is matt damp and free from puddles.
- Do not use FloArm Hard L on frozen, contaminated or wet substrates.
- Small shade variations are unavoidable due to greatly varying porosities.
- Do not use acid based cleaning materials.
- A regular maintenance clean improves the surface sheen.
- Immediate sheen effects can only be achieved by polishing.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of MYK Arment.

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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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