

# FloArm Seal 35

(Formerly known as MYK COAT 1010 (I))

Concrete Impregnator



## TECHNICAL DATA SHEET

### Uses

FloArm Seal 35 is used:

- For impregnating and consolidating cement-based substrates such as concrete, cement-based screeds, plaster and similar.

E.g.

Concrete roadways, parking lots above and below ground, industrial floors, air-port halls, mechanics workshops etc.

### Features and Benefits

FloArm Seal 35 is a two-component epoxy resin with the following properties:

- Solvent based
- Low viscosity
- Binds dust and consolidates
- Watertight
- Resistant to diluted alkalis, acids, aqueous salt solutions, lubricants and fuels
- Tendency to yellowing
- Water vapor permeable.

### Application Methodology

#### Step no 1: Surface preparation:

The area to be treated must be:

- Dry, firm, sound and have a good grip
- Free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar
- Protected from the effects of moisture from the rear.

Use suitable means to prepare the substrate dependent on its condition such as e.g. sweeping, vacuuming, brushing, planning, scabbling, grit -blasting, shot blasting, high pressure water jetting. The following criteria are to be observed dependent on the particular substrate:

#### Cementitious surfaces:

Concrete quality	Min. C20/25
Age of substrate	Min. 3 days
Screed quality	Min. EN 13813 CT-C25-F4
Plaster quality	PIII
Age	Min 28 days
Tensile adhesion strength	1.5 N/mm <sup>2</sup> (plaster 0.8 N/mm <sup>2</sup> )
Residual moisture	< 6.0% (carbide hygrometer)

#### Step no 2: Product preparation:

Components A (resin) and B (hardener) are delivered in a predetermined mixing ratio. Tip component B into component A. Ensure that the hardener drains complete- lee from its container.

Mixing of the components is to be carried out with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure that the hardener is evenly dispersed. Stir until the mix is homogenous (free from striations). The minimum temperature during mixing should be +15°C. Do not use mixed material directly from the packaging. Decant the material into a clean container and mix through thoroughly once again.

#### Step no 3: Method of Application:

FloArm Seal 35 in two or three coats by Spraying, brushing or roller whilst the previous coat is still wet.

#### Notes:

FloArm Seal 35 does not affect the hydration (setting) of cement. It can therefore be applied to green concrete (approx. 3 days old). Furthermore, the material can be applied to substrates that are still damp (< 6%residual moisture). However, in both cases the depth of penetration is restricted.

#### Cleaning & Equipment Maintenance:

Thoroughly clean tools immediately after use with FloArm Tool Clean Cleanser

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### Technical Data

Basis	Two component epoxy resin
Color	Transparent
Density	Approx. 0,9 ± 0,02 g/cm <sup>3</sup> at +27°C
Viscosity in a B4 flow cup	15 -25 seconds at +27°C
Solids content	Approx.35%
Mixing ratio	100:15 parts by weight
Pot life	Approx.20hour at +10°C Approx.10hour at +20°C Approx.5hour at +30°C
Application temperature	Min.+15°C, Max.+35°C
Foot traffic after	Approx. 2 h at +27°C
Overcoat after	Min. 4 h, Max. 24 h at +27°C
Fully cured	After approx. 7 days at +27°C
Min. cure temperature	+15°C
Flash point	Above +21°C

### Consumption

Apply FloArm Seal 35 in two or three coats by Spraying, brushing or roller whilst the previous coat is still wet. approx. 150 - 400 g/m<sup>2</sup> per coat (dependent on the porosity of the substrate).

### Packaging

- FloArm Seal 35 is available in 4 Kgs Containers.
- Components A and B are delivered in a predetermined mixing ratio.

### Storage and Shelf Life

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

### Health & Safety

Once cured FloArm Seal 35 is considered harmless. The hardener (B) component is corrosive. Current relevant legislation should be followed at all times when working with epoxies, e.g. hazmat transportation, etc. For more information please consult MYK Arment technical cell

### Annotation

- The application temperature may not fall below +10°C nor exceed +40°C.
- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time.
- Material consumption is also increased at lower Temperatures. To increase pot life/working time at higher temperature store material in a cool environment above +10°C and only expose to warm temperature shortly before mixing.
- The material contains solvent. When working with the product in confined spaces ensures that there is adequate ventilation and extraction.
- When the exposure limits are exceeded wear a respirator e.g. full mask required. Gas filter A (brown). When spraying the material a combination filter with particulates filter class P2 is required. When unsure and in enclosed spaces (e.g. in silos) use an independent breathing apparatus.
- The bond between the individual coats to one another can be heavily impeded through the influence of dampness or contamination between the applied coats.
- When longer waiting times occur after application of the liquid resin must be re-coated after a long time, the surface must be well cleaned and abraded, after which a new impregnation/consolidation should be undertaken.
- Protect surface protective systems from moisture (e.g. rain) for approx. 4 - 6 hours. Dampness produces white dis-coloration and/or stickiness on the surface and can impede the cure. Dis-colored and/or sticky surfaces should be taken off e.g. by abrading and renewed.

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- Impregnated or consolidated surfaces lose their efficacy after two to three years. They must then be renewed as described above.
- Due to different porosities of cement-based substrates a uniform appearance cannot be guaranteed.
- 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.
- Cured product residues are to be disposed of under waste disposal classification 57123 "Epoxy resin"



## TECHNICAL DATA SHEET

### 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.