

FloArm Coat EC-S

(Formerly known as MYK Coat EC 100 S)

Solvented Epoxy Resin Coating for Steel and Concrete



TECHNICAL DATA SHEET

Product Description

FloArm Coat EC-S is a Solvented base specially formulated epoxy Resin coating to provide a durable and suitable application for both vertical and horizontal surfaces. It cures to form a smooth hygienic film with good resistance to a wide range of mineral and organic acids, fats, alkalies and oils.

Features and Benefits

- Hygienic
- Chemical Resistant
- Compatible with all substrates
- Can be applied directly on to mild steel and concrete Forms a smooth glossy film
- Easy to clean

Application Method

Surface Preparation:

The surface to be treated must be structurally sound must comply with the principles of Indian construction standards. The surface should be dry free from laitance, dust and other contaminations.

It is essential that FloArm Coat EC-S be applied to sound clean, dry substrates in order to achieve maximum adhesion between the coating and substrate.

Priming:

FloArm Coat ZP is recommended as Primer for Steel surfaces prior to application of FloArm Coat EC-S.

Mixing:

The individual components of the pre-weighed material FloArm Coat EC-S, base and Hardener are stirred thoroughly to disperse any settlement which might have taken place during storage before they are mixed together.

The entire content of the color paste should be poured in to the base. The hardener should be slowly poured into the base while mixing with slow speed paddle of (300-500) RPM till the mixed material appears in uniform color.

Coating:

The mixed FloArm Coat EC-S is spread on to the well prepared dry surface using a paint brush/Woolen roller or Spray. The optimum dry film thickness achieved in two coats is 100 microns.

Cleaning:

Tools and equipment should be cleaned with FloArm Clean PU immediately after use.

Temperature Limitations:

Minimum application temperature: 18°C. At temperatures below 18°C and over 40°C, please contact MYK arment Technical Cell.

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Technical Data

Pot life @ 20 °C : 1 hrs. 30 minutes

@ 30 °C : 45 minutes

Time between coats : 4 - 6 hrs. @ 30°C

Initial hardness : 24 hrs. @ 30°C

Full cure : 7 days

Below 30°C temp the above times will be increased.

Volume solids (mixed material): 45%

Colors: Available in wide (Pl. refer shade card)

Chemical Resistance:

FloArm Coat EC-S has been tested for resistance for a wide range of chemicals commonly encountered in individual locations. Tests were performed by dipping into the solution for 3 months at 20 °C in the selected chemical solution. Samples were visually inspected and tested in accordance with ASTM D2240 for Shore D hardness.

Acids:

Hydrochloric 20% : R
 Nitric 15% : R
 Sulphur 50% : R
 Phosphoric 50% : R
 Acetic 10% : R
 Lactic 10% : R

Alkali:

Sodium Hydroxide 50% : R
 Ammonia (0.880) 10% : R

Solvents:

Petrol, Oil, Kerosene : R
 Acetone : S
 Butanol : R
 Skydrol : S

Other solutions:

Bleach : R
 Saturated sugar : R
 Urea : R
 Sat. NaCl solution : R

Key: R - Resistant,

S - Indicates slight attack under continuous immersion.

'Attack' refers to any etching or swelling observed but ignores Discoloration.

Where chemicals at temperatures higher than ambient are involved MYK arment shall be consulted. FloArm Coat EC-S has been formulated specially to provide the highest chemical resistance. However, at elevated temperatures or where mixture of chemicals is involved then the effects may be different than those found in laboratory tests as described above. MYK arment local office shall be contacted for any clarifications.

Specification clauses

Protective surface coating:

FloArm Coat EC-S is a 3 Part, Solvented protective surface coating, Chemical Resistant coating with a minimum of 45% solids. The total dry film thickness shall not be less than 90microns and shall be resistant to a range of industrial chemicals. The cured film shall be hygienic and provide smooth surface. It shall be applied on to the dry concrete surface.

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Packaging

FloArm Coat EC-S: Available in 4 kg Composite Pack (Base + Hardener + color paste) Coverage Approximately 4m²/kg @ 90 microns. However, practical coverage depends on the nature and porosity of the substrate and application conditions. To understand practical coverage, always do on site trial application)

Storage and Shelf Life

12 months if stored in unopened container below 35°C under shaded area.

Health & Safety

Some people are sensitive to epoxy resin systems and may develop dermatitis on skin contact. Gloves and barrier creams should be used when handling primers and FloArm Coat EC-S. If contact with the skin occurs, wash with soap and plenty of water. Do not use solvent. Direct contact with the eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with plenty of water and immediate medical treatment sought. The use of goggles when mixing is recommended. Smoking to be avoided. FloArm Coat EC-S is flammable. Ensure adequate ventilation when using primers and solvents and do not use near a naked flame.



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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.