

Polypoxy FC(S)

Solvented epoxy resin coating

Two component solvented epoxy resin based coating for concrete and metal surfaces.

CHARACTERISTICS

- ▶ Easy to use and economical
- ▶ Good wear and abrasion resistance
- ▶ Good resistance to a wide range of chemicals
- ▶ Provides a dust free surface
- ▶ Easily cleanable



Chemical resistant



easy to apply



reduce surface dust

DESCRIPTION

Polypoxy FC(S) is a two component solvented epoxy resin based coating for concrete and metal surfaces. This coating provides protection to cementitious and metal surfaces against abrasion and light to medium chemical spillages.

FIELDS OF APPLICATION

Used as a continuous floor & wall coating to provide a hard bearing and dust free surface in the following areas:

- air craft maintenance and assembly units
- warehouses
- pump rooms
- car parking decks

APPLICATION INSTRUCTIONS

Surface preparation

Clean the surface of all dust, dirt, oil & grease, cement laitance and all loosely adhering particles. New concrete surface shall be at least 28 days old and the surface moisture content less than 5%. Captive/grit blasting and grinding is recommended for the most effective surface preparation. Surface irregularities and blow holes shall be repaired with Polypoxy BF (Epoxy resin based blow hole filler and skimming mortar) or Polycrete ST (cementitious repair mortar). Alternatively an epoxy resin based scratch coat can be used when repairing larger areas (> 0.5m²). The surface after carrying out the necessary cleaning shall be vacuumed for removing the dust debris left over after the cleaning process.

Priming

On most new concrete floors priming may not be required. However for best adhesion, prime the prepared surface with Polyprime EPS @ 4-5m²/L. The coating is applied



when the primer is dry. However, in all circumstances, the coating shall be applied within 24 hours of application of the primer. If the primer surface is left open for more than 24 hours, then a fresh coat of primer has to be re-applied.

Mixing

Take a suitable container and pour the resin (A) into it. Add the hardener (B) into the resin and mix thoroughly with a spiral paddle mixer. Use of a slow speed drill is recommended to reduce the formation of air bubbles.

CAUTION

A complete kit is to be mixed at a time. Part mixing is strictly forbidden.

Application

Once the material is mixed, apply the coating immediately within its pot life. Application on horizontal surface can be done with a squeegee. On vertical surfaces, it can be applied with a roller or airless spray. Apply the 1st coat @ 6-7 m²/L/coat. To get an anti skid finish broad cast Aggregate No.3 onto the 1st coat whilst it is still wet. After the coating dries off completely, brush away the excess aggregates and apply the 2nd coat at the same coverage rate. Various textures can be obtained by varying the quantity of the aggregates from 0.3 kg to 1.0 kg/m² on to the base coat. For a smooth coating, apply 2 coats @ 6-7m²/L/coat observing min and max overcoating times.

MAINTENANCE

As a good maintenance practice and increasing the life of the flooring, a regular cleaning with a light cleaning agent is suggested. Steam cleaning is not recommended.

CLEANING

Clean all tools with a Polysolvent immediately after use. Hardened materials can be removed mechanically only.

COVERAGE

Polyoxy FC(S)	6m ² /L/coat will give a DFT of 100 microns
Aggregate No. 3	0.3 to 1kg/m ²

STORAGE & SHELF LIFE

Store in a dry, cool and shaded area. Protect from sunlight, frost and high humidity. In tropical climates, store the material in air conditioned area at less than 25°C. The shelf life of the product is 12 months if stored as per recommendations. Exposure to heat and high humidity will result in the premature deterioration of the product and reduce its shelf life considerably.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Color	Grey (other colors available upon request)	-
Density, [g/cc]	1.2±0.05	
Solid content, [% by weight]	62±3	ASTM D 1475
Tack free time, [hours]	3-5	-
Over coating time, [min. hours]	6	-
Bond strength @ 7 days	Greater than the cohesive strength of concrete	ASTM D 4541
Application temperature, [°C]	5 to 35	
Service temperature, [°C]	5 to 70	

All values given are subject to 5-10% tolerance

SUPPLY

Polyoxy FC(S)	5L & 15L kit
Polyprime EPS	5L & 15L kit
Polyoxy BF	3kg kit
Polycrete ST	88 25kg bag
Polysolvent	5L & 20L
Aggregate No. 3	25kg bag

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.