



# Product Data Sheet

## ASMACO POXY 90 FC

**High strength trowel grade, epoxy resin fairing coat, repair mortar, bedding and adhesive**

### DESCRIPTION:

ASMACO POXY 90 FC is a specialized two-component epoxy compound designed for repairing concrete surfaces. It is particularly well-suited for filling pinholes and addressing surface irregularities in concrete before applying additional coatings. With the ability to be applied from a feather-edge up to 3 mm thickness, it offers versatility in addressing various levels of surface imperfections. The thixotropic formulation, devoid of solvents, allows for easy application on vertical or overhead surfaces without the need for a primer. This makes ASMACO POXY 90 FC a practical choice for concrete repair projects, providing a smooth and uniform surface ready for subsequent coatings.



### KEY PERFORMANCE PROPERTIES

- Easy to use, non-slumping.
- Good impact resistance
- Resistant to acids, alkalis, oil, grease, hydrocarbon fuels and saline water.
- No primer or bonding agent required.
- High compressive strength
- Can be troweled to smooth finish.

### AREAS OF APPLICATION

ASMACO POXY 90 FC is designed for application to minor imperfections in concrete surfaces. It is suitable for application from a feather-edge to 3 mm, and can be used in the following areas

- Filling pinholes prior to overcoating with ASMACO FLOORING products.
- General reprofiling over large areas, up to 3 mm depth.
- Sealing of surface cracks in preparation for crack injection.
- General purpose bedding mortar and adhesive
- Adhesive for bonding structural reinforcement, particularly in structural strengthening works.

### METHOD OF APPLICATION

ASMACO POXY 90 FC compounds shall be applied as per the following general method of application:

#### A. Substrate preparation:

The performance and durability of the compound largely depends on the condition of the substrate. Therefore, conditioning and preparation of the substrate is of utmost importance. The surfaces shall be thoroughly cleaned to remove all dust particles and laitance.

#### B. New Concrete Floors

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy repairing. Laitance and debris on new concrete floors should be removed by mechanical method. Dust should be removed by brushing and vacuum cleaning.

#### C. Old Concrete Floors.

Mechanical cleaning methods are strongly recommended on old concrete floors, particularly where heavy contamination by oil and grease has occurred or existing coatings are present, in which at this stage PRIMING the surface with ASMACO PRIME P2 is highly recommended to ensure proper adhesion of the compound to be applied.

#### D. Steel Surface

The surface should be grit blasted then clean by solvent and kept to dry, priming also is recommended by using **Epoxy steel primer** prior to application of ASMACO POXY 90 FC and ensure a proper bonding and adhesion.

#### E. Mixing

ASMACO POXY 90 FC part A and part B shall be mixed thoroughly using a trowel or gloved hand until a uniform color and consistency is achieved. For small mixes, ensure that both the parts are mixed as per the ratio of 3:1 (A: B).

#### F. Application

Application can be carried out by putty knife, trowel or wooden float. Press firmly to ensure proper adhesion and full contact. Additional build up can be done by multiple layer application. Thickness can be from 0mm - 5mm. The application of additional layers should follow between 8 – 24 hours after the first application.

TDS\_ASMACO POXY 90 FC, EPOXY ADHESIVE, GCC 1123



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## TYPICAL PROPERTIES

The following values were obtained when tested at 20°C and 30°C.

	@ 20°C	@ 30°C
<b>Pot Life:</b>	70 mins	45 mins
<b>Cure Time:</b>	5 hours	2.30 hours
<b>Full Cure:</b>	7 Days	
<b>Application Temperature:</b>	+5°C to +30°C hours	
<b>Compressive Strength:</b>	> 60 N/mm <sup>2</sup>	
<b>Tensile Strength: Concrete Failure</b>	> 4 N/mm <sup>2</sup>	
<b>Bond Strength (Pull Out):</b>	>16N/mm <sup>2</sup>	
<b>Concrete-steel bond Strength: (Concrete Failure)</b>	>3N/mm <sup>2</sup>	
<b>Mixed Density Kg / Liter:</b>	1.70	
<b>Mixed Color:</b>	Grey	

## CLEAN UP

ASMCO POXY 90 FC bonds strongly even to metal. We therefore recommend that tools are cleaned with solvent (ethanol, toluene, etc.) before the product hardens.

## STORAGE & SHELF LIFE

Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment (<25° C). The shelf life is up to 12 months in unopened conditions if stored as per guidelines.

## Shipping Limitations: None

### Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

**Non – Warranty :** Because the storage, handling and application of the material is beyond Anchor Allied Factory Ltd's control, we can accept no liability for the result obtained. Anchor Allied Factory Ltd's sole limited warranty is the product meets the manufacturing specifications in effect at the time of shipment. There is no warranty or merchantability or fitness for use, nor any expressed or implied warranty. Anchor Allied Factory Ltd will not be liable for any incidental and consequential damage of any kind. The exclusive remedy for breach of such limited warranty is a replacement of any product shown to be other than warranted. Suggestions of uses should not be taken as inducement to infringe any patents.

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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS,  
SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

## PACKAGING & COVERAGE RATE

### PACKAGING:

6 kg kit (Component A 4.5 Kg, Component B 1.5 Kg).

### COVERAGE FOR SMOOTH FINISH:

ASMCO POXY 90 FC is dependant upon surface conditions, site trials are recommended to ascertain actual usage on uneven substrates. As a guideline when applied at 200 microns WFT coverage is approximately **5 m<sup>2</sup> / Kg @ 200μ wft**

## HEALTH & SAFETY

ASMCO POXY 90 FC Component A is irritant for the skin and for the eyes, Component B is corrosive and may cause serious burns and damages to eyes.

Both components A and B can cause sensitization to the skin in those subject sensitive to such substance. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination occurs with other epoxy compounds.

When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

Then, ASMCO POXY 90 FC Component A and B are dangerous for the aquatic life. Do not dispose of these products in the environment. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

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