



FEDERAL INDUSTRIAL LININGS

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TECHNICAL DATA SHEET

FEDPRIME MC809

DESCRIPTION

FedPrime MC809 Epoxy Primer is a two-component moisture insensitive, epoxy based primer for cementitious and steel substrates. **FedPrime MC809 Primer** is designed to have good penetrating properties on concrete substrates. It is a suitable primer for a wide range of epoxy and polyurethane coating & lining systems. It can be applied by brush and roller onto concrete, steel, or cementitious substrates. It is a moisture curing product and will shield linings & coatings from up to 98% moisture as well as oils, diesel & greasy deposits in concrete substrates. It can also be used for prevention of rising damp.

PRINCIPLE USES

FedPrime MC809 Primer is indicated for old fuel & oil soiled concrete substrates, prior to application of various epoxy & polyurethane coatings & linings under normal & high moisture conditions. Typically linings & coatings cannot be applied to concrete/cementitious substrates that are soiled with greasy, oily or fuel deposits, or contains more than 5% moisture. With **FedPrime MC809** as a hydro-phobic primer, these substrates can be coated even with moisture levels exceeding 90%.

PERFORMANCE DATA

Description

Results

Pot Life (Minutes)	90 min (25°C)
Mix Ratio	2 : 1 (by volume)
Specific Gravity (g/l)	1.05
Touch Dry (Hours) @ 25°C	4 hrs
Open Time / Over Coating Time @ 25°C	24 - 36 hrs
Hard Dry (Hours) @ 25°C	8 hrs
Walk on Dry (Hours) @ 25°C	24 hrs
Full Cure @ 25°C	7 days
Kit Size	5lt / 5.3kg
Volume Solids	100%
Theoretical Coverage (m²)	6-8m² per litre (Depends on wastage and surface profile)
Application Temperature	10 – 40°C
Shelf Life	12 months

ADVANTAGES

- Low viscosity
- Eliminates out-gassing of concrete.
- Compatible with a wide range of coating and lining systems.
- High penetration into concrete substrate.
- Coatings and linings can be applied the following day.
- Hydro-phobic properties – keeps moisture away from coatings and linings
- Withstands up to 98% moisture in concrete substrates
- Withstands oily & greasy deposits on old soiled concrete substrates
- Can be applied over green concrete (7 days old)

SURFACE PREPARATION

Mechanical preparation of the substrate is important before priming with **FedPrime MC809 Primer**. The substrate should be de-greased with an industrial de-greaser if oil, diesel deposits, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits are present. The surface may be further prepared by sweep blasting or as per standard practice to expose aggregate surface or to achieve necessary roughness if possible.

MIXING

Premix both base (Part A) and hardener (Part B) to disperse any settlement. Add all of Part B to part A and mix using a mixer with a mixing paddle at medium speed for 2-3 minutes until both components have fully dispersed and is homogenous. Ensure to rotate the mixer inside the container and into the corners of the container. Do not add thinners. Only mix full packs.

APPLICATION

Apply in a single coat at the specified thickness (150µm) using a heavy duty squeegee, brushes and/or rollers to a cleaned and prepared surface. Work the product into the pores and back roll using a short hair roller to achieve a uniform finish. On porous surfaces **FedPrime MC809 Primer** will be absorbed into the surface quickly, possibly leaving dry patches or small air bubbles. It is recommended that these patches be recoated to ensure good adhesion and avoid substrate air release. Apply suitable top coat within 24 to 36 hours after application. Any porous or absorbed areas still showing after priming applications, should be primed again.

CLEANING

Clean hands and skin immediately after use with industrial hand cleaner.
Clean tools and equipment immediately after use with **FedThin Epoxy Thinner** or MEK.

LIMITATIONS

- Working temperatures between 10 and 40°C.
- **FedPrime MC809 Primer** will not accommodate movement or cracks in the substrate.
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

Both **FedPrime MC809 Primer** Part A and Part B have a shelf life of 12 months when stored in unopened containers in a cool, dry place.

Failure to do so will result in a reduction of shelf life.

SAFETY AND HANDLING

FedPrime MC809 Primer contains epoxy resins. Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing and gloves should be worn when handling this product.

FedPrime MC809 Primer Part B contains amine compounds. Use only with adequate ventilation and avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing should be worn and contact with the body avoided. All sources of ignition should be removed.

The safety procedures applicable to the handling of epoxy and amine chemical materials should be read, understood and rigidly adhered to.

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