

Concretin FMA 151

Acid Resistant Epoxy Pointing Mortar.

Description:

- **CONCRETIN FMA 151** is a solvent free two components system, based on liquid epoxy resin. Selected fillers and a formulated amine hardener.
- Epoxy resin complies with ASTM C 881.

Fields of Use:

- **CONCRETIN FMA 151** is particularly suitable as a pointing mortar for acid resistant bricks and tiles in sewage plants, culverts, manholes and similar structures.

Advantages:

- **CONCRETIN FMA 151** is supplied, in pre-measured two component packaging or three components (A+B+C) .
- After mixing **CONCRETIN FMA 151**, it has a very smooth thixotropic consistency, suitable for filling from 3mm.to 20mm. joints without sagging. There is no need for any primer coat even under dry, damp and wet conditions, when applying **CONCRETIN FMA 151**.
- **CONCRETIN FMA 151** after hardening is resistant to water, and waste water alkalis, diluted acids, salt solutions, grease, fuels and mineral oils.
- **CONCRETIN FMA 151** has a long pot life even at high ambient temperatures.

Technical Data : (at 25 °C)

Colour	Black (A: sandy, B: black)
Soild content	100%
Density (ASTM C 905)	1.95 ± 0.02 kg/l
Mixing ratio A : B (by weight)	15: 1
Pot life (ASTM C 308)	120 minutes
Initial setting time (ASTM C 308)	8 hours
Final setting time	24 hours
Full hardness	7 days
Min. application temperature	5°C
Water absorption (ASTM C 413)	0.12%
Linear shrinkage (ASTM C 531)	0.059%
Bond strength to bricks (ASTM C 321) (dry, damp or wet condition)	1.90, 1.65, 1.55 N/mm ²
Compressive strength (ASTM C 579)	66 N/mm ²
Tensile strength (ASTM C 307)	12.5 N/mm ²
Rate of use	5m/kg for joint 1 x1 cm.

Chemical Resistance : (ASTM C 267) (for 84 days at 70°C)

Sulphuric acid	50%	ex
Nitric acid	20%	ex
Ammonium nitrate	99.5%	ex
Petrol		ex
Sewage water		ex

ex: excellent (no softening + no pubbles + no change in colour)

Protective Coating Products

Epoxy Mortars & Putties

Directions for Use:

- Surface must be clean and structurally sound. Any loose particles, unsound brick, concrete and laitance should be removed.
- The surface must be free of oil, grease and other contaminations which can prevent good adhesion.
- **CONCRETIN FMA 151** can be applied as pointing mortar under dry, damp or wet conditions but any free standing water should be removed prior to application.
- Both components of **CONCRETIN FMA 151** are supplied in the correct mix ratio.
- The hardener (Component B) is poured into Component A. Care must be taken that the hardener is completely emptied from its container.
- Mixing of the two components is best achieved when using a slow speed mixer (maximum speed of 300 r.p.m.) fitted with a suitable paddle. It is essential that the mixing should be carried out using side - to - side and top - to bottom motions, in order that both components are evenly, distributed vertically and horizontally.
- Mixing must be continued for approx. 3 minutes until the mixture has attained a homogeneous appearance and dark grey colour.
- Clean tools by **KEMSOLVE1**.

Safety Precautions:

- Application should be carried out in a well ventilated place.
- Gloves, protective clothing and eye goggles should be worn during application.
- Skin contaminations should be immediately cleaned with soap and plenty of water.
- If the material is splashed into the eyes, they should be immediately be washed with water, and then report to an eye specialist.
- Do not eat or smoke during use.

Storage:

- 2 years under suitable storage conditions in closed containers.

Packages:

- 16 kg kits. (15kg component A, 1 kg component B), other units on request.
- 30.3 kg kits. (3 components A + B + C).
- Follow the mixing ratios - by weight - indicated on the package.