

SUNKEM EPOCRETE 21

LOW VISCOCITY HIGH STRENGTH INJECTABLE EPOXY GROUT

DESCREPTION

" SUNKEM EPOCRETE-21 " is a two component solvent free ultra low viscosity free flowing, fast curing epoxy resin system designed specially for pressure injection into concrete for carrying structural repairs. Due to its low viscosity it can be injected into extremely fine cracks also. The cured resin possesses high mechanical strength, excellent adhesion, practically no shrinkage and a chemical resistance typical of all epoxy resin system. Fine cracks and small voids can be successfully sealed with "SUNKEM EPOCRETE-21" has very high strength, the cured material is not brittle and remains slightly flexible. 'SUNKEM EPOCRETE - 21" Is supplied pre-measured quantities. Component A-Resin and Component B-Hardener.

MIXING RATIO

Component A : 100 parts by weight

Component B : 50 parts by weight

PROPERTIES

Colour : Light amber

Density : 1070 to 1090 kg/m³

Compressive Strength M 350 kg/cm² in 24 hours at 30°C.

800 kg/cm² in 7 days at 30°C.

Tensile Strength : 150-200 kg/cm² in 7 days at 30°C.

Flexural strength : 300-400 kg/cm² in 7 days at 30°C.

Pot life : Approximately 40 minutes at 30°C

Shrinkage : Practically no shrinkage.

Chemical Resistance : Unaffected by a wide range of chemicals, oils etc.

Storage : 24 months when unopened and kept in shade.



APPLICATION DATA

SURFACE PREPARATION

The area to be treated should be properly cleaned to remove dust, laitance, grease, fungus etc. Injection nipples are fixed in a square grid maximum 500 to 800 mm c/c depending on the cracks and nature of concrete. If required for effective treatment, the grid may be reduced. Before the injection starts all cracks and crevices are to be sealed with "SUNKEM EPOCRETE - 21 " mortar and surface sealing is to be done for other porous areas.

MIXING

Mix all the components-B (Hardener) with Component-A (Resin) Mix for 2-3 minutes to uniform colour without any streak using drill and paddle (speed 400 - 450 R.P.M.) mixer so as to avoid any entrapped air.

Mix only sufficient material for immediate requirement. Leave the mixed material stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.

INJECTION

The grout mixture should be pumped by a positive displacement plunger type pump. Inject at slow and even pressure through the injecting nipples till refusal or when the/grout oozes out from nipple immediately adjacent to or above the one being injected.

NOTE

Store the material in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent for epoxy resin before full hardening.

