

TECHNICAL DATA SHEET

INTRODUCTION

EMCRETE is a one component, a free flowing non shrink repair micro concrete. It is high strength good quality cement micro concrete, composed of selected aggregates & additives. EMCRETE has excellent flow ability, workability & proper particle size to reach small & congested reinforcement.

AREAS OF APPLICATION

EMCRETE is mainly recommended for repair of damaged reinforced concrete elements like beams, columns, walls, etc. where access is restricted and compaction is not possible. It is also recommended for grouting of large gaps. For jacketing of RCC columns to increase load-taking capacity

FEATURES & BENEFITS

- One component : Only fresh water addition required at site
- Pumpable : Can be pumped or poured
- Flowable : Flowable mortar
- Shrinkage : Controlled expansion system to compensate shrinkage and settlement in the plastic state.
- Vapour : Offers excellent vapour permeable
- Durability : Highly durable & compatible to parent concrete.
- Thickness build up : Can be applied at 100 mm thickness
- High Tensile Strength: Develops high initial and ultimate compressive strength

TYPICAL PROPERTIES

Appearance	:	Grey powder
Bulk Density	:	1.4 kg/l [of fresh grout] at 27°C
pH	:	11-13 when mixed with water
% Water absorption 24 hrs	:	0.45
Chloride content	:	Nil
Coverage	:	13 sqft per 25 kg pack at 10 mm thickness

INSTRUCTIONS FOR USE**SURFACE PREPARATION**

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc. Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits using **AMCOR RR**. Apply **RESIKON RSK** over the cleaned re-bars and allow it to dry before pouring of Micro Concrete. Saturate the substrate with water to prevent absorption of water from the mixed material.

MIXING

Use PAN Mixer for mixing of EMCRETE. Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) to a PAN Mixer. Start addition of Micro Concrete powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 10 – 15 % of mixing water & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.

APPLICATION

Pour or pump the mixed EMCRETE into a watertight shuttering. Cure the repaired concrete for minimum 7 days

TECHNICAL PROPERTIES**1] COMPRESSIVE STRENGTH**

Curing Time	Compressive strength In N/ mm ²
	According to ASTM 1107-91
3 Days	≥ 25
7 Days	≥ 45
28 Days	≥ 65

2] FLEXURAL STRENGTH

Curing Time	Flexural strength In N/ mm ²
	According to ASTM C-293-79
7 Days	≥ 4.0
28 Days	≥ 5.0

3] TENSILE STRENGTH

Curing Time	Tensile strength In N/ mm ²
	According to ASTM D 412-87
7 Days	≥ 2.0
28 Days	≥ 3.0

PRECAUTION

The above mentioned values are based on concrete produced by mixing EMCRETE 10 mm down aggregate in proportion to 2:1

PACKING

25 kg in Bags

SHELF LIFE

Shelf life is six months from the date of manufacturing. Store at cool & dry place in unopened condition.

SAFETY DATA

HEALTH HAZARD: EMCRETE is non toxic in nature. It is recommended to take necessary precaution, which one would take while handling alkaline substance. Use rubber hand gloves, splash goggles etc. Direct contact with any part of the body, especially with eyes must be avoided. In case of contact or splash into eyes, wash with water immediately and consult a physician.

DISCLAIMER

This information is given to the best of our knowledge. There is no legally binding assurance of certain properties for a specific purpose. The customer is responsible for determining whether the product and Information provided here is appropriate for his use. It is the sole responsibility of the customer to ensure that any proprietary rights and existing laws and legislation are observed.

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