



# RESICRETE 21

Low Viscosity High Strength Injectable Epoxy Grout

## DESCRIPTION

“RESICRETE 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 “RESICRETE 21”. Although “RESICRETE 21” has very high strength, the cured material is not brittle and remains slightly flexible. “RESICRETE 21” is supplied in 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/m <sup>3</sup>
Compressive Strength	:	Min 350 kg/cm <sup>2</sup> in 24 hours at 30 <sup>0</sup> C. 800 kg/cm <sup>2</sup> in 7 days at 30 <sup>0</sup> C.
Tensile Strength	:	150-200 kg/cm <sup>2</sup> in 7 days at 30 <sup>0</sup> C.
Flexural Strength	:	300-400 Kg/cm <sup>2</sup> in 7 days at 30 <sup>0</sup> C.
Pot Life	:	Approximately 40 minutes at 30 <sup>0</sup> 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 “RESICRETE 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 a 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 to 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.

---

### ***TECHNICAL SERVICE :***

*SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.*

*SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee*

**NOTE :** This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

---

### **THE STRUCTURAL WATERPROOFING CO.PVT.LTD.**

Regd. Office : 21/1 Dover Road Calcutta- 700 019 **Dial :** 2475-2684/5378/9950, **Fax :** 2475- 8240  
Calcutta : Plot 38/1, Block-GN, Sector IV &V, Salt Lake City, Calcutta- 700 091  
**Dial :** 2357- 3546/3547 , **Fax:** 2357 3881  
Delhi Office : 406, Deepali, 92, Nehru Place, New Delhi - 110 019, **Dial:** 26445680 &  
26435432 **Fax:** 26416861  
Mumbai Office : 56, Mahavir Centre, Sector -17, Vashi , Navi Mumbai - 400 703,  
**Dial:** 27893601 (**Hunting**), **Fax:** 27893571 **E-mail:** swcbom@bom5.vsnl.net.in  
Chennai Office : 81, 3<sup>rd</sup> Floor, A, Sulochana Terrace, 1<sup>st</sup> Main Road, Gandhi Nagar, Adayar,  
Chennai-600 020 **Dial.** 24423731 **Fax** 24422476  
Bangalore Office : 104, Victoria View, Borewel Road, White Field, Bangalore – 560 066.  
**Telefax :** 080 – 3310112, **Email :** swcbangalore@yahoo.co.in

