

**HIGH PRECISION  
NON SHRINK  
ENGINEERING GROUT**

**STREXTRA R20**

**RAZON**



# RAZON

## Strextra R20

(High Performance ready to use non shrink flowable grout, possess fast set and rapid strength gain with high early and final strengths)

### AREAS OF APPLICATIONS:-

- Grouting of ties between precast slabs & under base plates
- As a repair mortar for structural concrete
- Piling work
- Precision grouting of foundation and anchor bolts, heavy machinery, etc.
- Shotcrete
- Applications requiring high early and ultimate compressive strengths
- Used at Power Plants, Windmill foundation, Heavy Industries, Ports, etc.

### FEATURES:-

- Highly flowable & compacts into small voids
- Use in sections upto 150 mm due to granulometry of 3 mm
- Can be used for horizontal and vertical applications
- High tensile strengths
- Fast setting time
- Rapid strength gain
- High ultimate strengths
- Safe for reinforced sections
- High flexural strengths
- Highly consistent for thixotropic and flowable applications

Due to carefully selected & controlled use of coarse & fine aggregates, blended under controlled conditions, with polymeric additives, highly uniform, high consistency ready to use mortar, requiring mere mixing of water at site is available.

The accelerated strength is main feature of Strextra R-20. Besides accelerated strength, controlled expansion offsets hydration shrinkage, ensuring no shrinkage, crevices free setting mortar, for repairs and patch up work, specially for grouting applications.

Use of controlled and carefully selected granulometry, incorporation of special fast hydrating admixtures; 24 hours strength of 20-24 N/mm<sup>2</sup> is feasible.

### METHOD OF USE:-

Before placing the grout, clean the area to receive Strextra R20 mortar thoroughly, ensure it is free of dust, grease and oil. Air blow using compressed air to remove dust prior to placing. Damp the surface but do not allow puddles. In case form work is used, ensure it is coated with SC 17000 ( release agent).

Empty out contents of Strextra R-20 from its bag. Mix contents thoroughly, use mechanical stirrer or mixer for effective mixing and rheology at controlled water content. For a flowable grout use 15-16% water (w/w) of Strextra R-20 depending upon requirement of

flow of the grout. For paste consistency use 12-14% water (w/w). Use of a mechanical mixer is recommended for precision applications. Mix thoroughly for atleast 150 seconds to ensure uniform consistency and use mortar as desired, within 30 minutes.

### PERFORMANCE:-

No	Particulars	Method	Result	Remark
1.	Consistency	-	3.1 litres water required	Flowable consistency
		-	2.6 litres water required	Paste consistency
2.	Plastic Density	-	2200 kg /m <sup>3</sup>	Flowable consistency
3.	Unrestrained Expansion	-	2 - 4 %	By volume
4.	Yield	-	10.5 litres	For Flowable consistency
		-	10.10 litres	For Paste consistency
5.	Compressive Strengths	As per BS 6319 Pt2	22.45 N/mm <sup>2</sup> @ 1 day	Flowable consistency
		As per BS 6319 Pt2	42.52 N/mm <sup>2</sup> @ 7 days	Flowable consistency
		As per BS 6319 Pt2	76.50 N/mm <sup>2</sup> @ 28 days	Flowable consistency
6.	Flexural Strengths	As per BS 6319 Pt3	4 N/mm <sup>2</sup> @ 7 days	Flowable consistency
		As per BS 6319 Pt3	10 N/mm <sup>2</sup> @ 28 days	Flowable consistency
7.	Tensile Bond Adhesion Strength	As per ASTM D 4541	3.5 N/mm <sup>2</sup>	Paste consistency on RCC surface

**PRODUCT DATA:-**

No	Particulars	Data
1.	Colour	Greyish
2.	Consistency	Granulometric distribution 0mm – 5mm.
3.	Packing	20 kg bags
4.	Chloride , Iron, Sulfate content	Nil.
5.	24 hrs compressive strength	20-24 N/mm <sup>2</sup>
6.	28 days compressive strength	Min 55 N/mm <sup>2</sup> – 75 N/mm <sup>2</sup>
7.	IST & FST	Initial Setting Time 35-40 min ; Final Setting Time 60/80 min
8.	'Pot' life	Must be used within 25-30 minutes after mixing
9.	Storage	In sealed condition, in a cool and dry place away from moisture & direct sunlight.

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It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable. All Razon datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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