



# BUILDROCK GROUT 200 HF

FREE FLOW HIGH STRENGTH NON SHRINK CEMENTITIOUS GROUT .

## TECHNICAL SPECIFICATIONS & DATA SHEET

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### DESCRIPTION

**BUILDROCK GROUT 200 HF** product is designed for use where High Strength and High Fluidity are required. It is made by Quartz Particle with a Shrinkage Impregnation Binder. It prevents shrinkage. It is also used for precision grouting where it is essential to withstand static and dynamic load. Typical applications would be the grouting of base plates of turbines, compressors, boiler feed pump.

### AREA OF APPLICATION :

- Petrochemical Industries .
- Cement plant where heavy machines work .
- Heavy duty grouting machinery and Equipment
- To grout base plates of turbine ,compressor ,boiler unit
- To grout anchors in concrete ,
- Sealing around penetrations ▪
- Post Fixings

### ADVANTAGES :

- Easy to use, ready to mix powder .
- Easy to mix, only mix water .
- High Final Strength
- Suitable for temperature of above 0C to 200 C
- High Strength for maximum Load Bearing
- Does Not contain any chloride and additive which create corrosion of basements of steel
- High Fluidity Material , Shelf Flow
- No Segregation and Bleeding
- Chloride free
- Not required Special Curing ,
- Non Flammable powder
- Not Contains Toxic Material
- Oil and Fire resistant

### APPLICATION INFORMATION:

#### Mixing Ratio

- |                          |                                 |
|--------------------------|---------------------------------|
| • For Flowable w/p ratio | 0.15- 0.16 %by weight of Powder |
| • Pourable w/p ratio     | 0.14 by weight of Powder        |
| • Fresh Weight Density   | 2000-2100 kg/cm Cube            |
| • Thickness              | 100 mm Maximum                  |
| • Pot life               | 25-30min @27C                   |
| • Substrate Temperature  | 5-40C                           |
| • Initial Setting Time   | 40min                           |

### LIMITATION :

- **Buildrock Grout 200 HS** is only used for Grouting work .
- Don't use **Buildrock Grout 200 HS** for repair work
- Do not add water over recommended dosage
- Apply only to Sun-dried, prepared Substrate
- Avoid direct Sunlight or strong winds .
- Protect freshly applied material from freezing and frost
- Keep exposed Surface to a minimum.
- If the temperature is very high then use cold or chilled water for mixing ,if the Temperature is very low then we use hot water for mixing .
- Keep the exposed surface to a minimum .

### METHODS OF APPLICATION :

#### SUBSTRATE QUALITY :

The surface shall be clean and neat and free from dust ,loose material ,oil and grease material. Remove the sound concrete . Delaminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means. The concrete substrate should be unsaturated with clean water for 5-6 hrs to ensure Saturated surface dry condition.

#### STEEL AND IRON :

Steel and iron surface clean free from oil or grease rust ,scale .The substrate should be prepared by mechanical work such as scabber or hammer ,blast cleaner .

### MIXING PROCESS:

**Buildrock Grout 200 HS** Can be mixed for slow speed hand drill machines to avoid air entrapped in material .For better mixing use full bag material for applicator .First pour the water in mixer container and charge the powder slowly slowly in to container and mix the whole material 3-4 min .do not mix **Buildrock Grout 200 HS** more time which can be use after gel time .do not add extra water then recommendation .

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### PRODUCT INFORMATION :

PROPERTIES	STANDARD SPEC.	TEST RESULT
Chemical Base		Cement with Some additive and Quartz Natural Aggregate
Appearance		Cementitious grey color with No agglomerates and free from Hydrated lumps
Color		Grey color
Storage Precaution		Store in cool and dry place
Bulk Density		1.5-1.7 gm/cc
Fresh Wt Density		1.8-1.9 gm/cc
w/p Ratio		0.15-0.16%
Flow		180-220 mm
Compressive Strength (Cube Size-50mm)		
1 day	ASTM C-109	25 mpa
3 days	ASTM C-109	45 mpa
7 days	ASTM C-109	60 mpa
28 days	ASTM C-109	65 mpa
FLEXURAL STRENGTH	ASTM C-78	
7 days		90 kg/cm Square
28 days		105 kg/cm Square
Expansion		Up to 6%
Shrinkage		No Shrinkage Found after initial setting

All the technical data information is carried out based on laboratory test .actua data may be vary due to Circumstances beyond our Control

### CLEANING :

After the application, clean all tools and instruments with water immediately .Hardened material can be only removed by mechanical work .

### HEALTH & SAFETY :

Before application ensure that all workers should be wear mask and hand gloves . If in case contact with Skin ,immediately wash with plenty of water

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