

TECHNICAL DATA FOR BS REPSTRONG-2
MicroConcrete for Concrete Repairs

Description of BS Repstrong-2

BS Repstrong-2 is a high performance, shrinkage-adjusted, pourable micro concrete that is manufactured using specific cement, aggregate, and special additives. Water and coarse aggregate may be added to the site as needed.

Advantages of BS Repstrong-2

1. Easy to mix and use
2. Non Corrosive
3. Early strength Development
4. No vibration required
5. Easy Flow Properties
6. Pumpable
7. Good bonding with existing concrete substrate
8. Required consistency can be achieved by adjusting water in the mix within limits
9. Chloride Free
10. Impact Resistant

Recommended Application of BS Repstrong-2

BS Repstrong-2 is suitable for delivering high performance repairs & fixes to various type of concrete structures areas for example:

- Water Reservoirs
- Power stations
- Roadway extensions and ducts
- Parking areas
- Concrete Floorings
- Sewerage and water treatment structures
- High Strength Concrete can be made using BS Repstrong-2 at 2:1 mix with 10mm down aggregate by weight.

TECHNICAL INFORMATION

Compressive strength (ASTM C109)	
Curing time	Compressive strength
1 day	≥ 25 N/mm ²
3 days	≥ 35 N/mm ²
7 days	≥ 45 N/mm ²
28 days	≥ 65 N/mm ²

Flexural strength (ASTM C293)	
Curing time	Flexural strength
7 days	≥ 7 N/mm ²
28 days	≥ 9 N/mm ²
Other Properties	
Shrinkage	None, after initial setting
Fresh Wet Density (water : powder = 0.15)	(2.15 ± 0.15) kg/L
Consumption	1900 kg of powder per m ³ of concrete
Pot Life (water : powder = 0.15, +30 °C)	20-25 minutes
Working Temperature Range ; Ambient & Substrate	+5 °C min. / +40 °C max.
Water Requirement	15% by Weight
Pack Size	20Kg Bags
Storage	Indoors, Moisture free area
Appearance	Light Grey, Free Flow Powder
Shelf Life	Best Before 12 Months from Mfg Month
Cleanup	Water Clean Up.

APPLICATION INFORMATION

Preparation of Mortar

- In a clean container, first add water 80% to 90% measured by weight as per the desired flow required
- Then slowly add drymix mortar to the water, mixing continuously with a slow speed paddle mixer to achieve a lump free consistency, mix for 3 minutes
- Add the remaining water in the last.
- Let The mixed material sit for 3 minutes.
- Aggregate size 5mm to 10mm down can be added
- Do not add extra water
- Use 1 bag at time for correct mixing ratios.

Layer thickness Information

Minimum 25 mm per pour Maximum 100 mm per pour
Higher layer thickness can be done with aggregate if needed at 15% of the drymix weight; so for a 20kg bag you may add 3kg of aggregate 10mm down.

You may connect with us for application support and technical information needed for your project. We will be happy to assist you with Method Statements and specifications.