

# PRODUCT DATA SHEET



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## STANDARD METHOD STATEMENT

For Installation of Flowcrit UR100 – High Strength, Non-Shrink Cementitious Grout

### PURPOSE

This method statement outlines the standard procedure for the proper installation of Flowcrit UR100, ensuring quality, durability, and safety during grouting applications for structural and equipment base support.

### SCOPE

Applicable for all grouting works using Flowcrit UR100, including:

- Structural columns
- Base plates
- Machine and pump foundations
- Rail posts
- Turbine and compressor pedestals
- Heavy-duty motor foundations.

### WORKING CONDITIONS / ENVIRONMENT

- Ambient Temperature: 15°C to 35°C (ideal range: 23 ± 3°C)
- Avoid application during heavy rain or strong wind.
- Ensure good ventilation during mixing and application.
- Provide shade or tenting to avoid direct sun on fresh grout.
- For tropical climates, store bags in air-conditioned areas.

### MATERIAL HANDLING AND STORAGE

- Store Flowcrit UR100 in a dry, shaded, and well-ventilated place.
- Keep bags away from moisture.
- Stack not more than 10 bags high to avoid compaction.
- Shelf life is 6 months in unopened, sealed packaging.

### TOOLS AND EQUIPMENT REQUIRED

- Mechanical Mixer (slow speed ~600 RPM)
- Spiral mixing paddle (for drills)
- Grout hopper
- Pouring funnels and chutes
- Wire brush, chisel, compressed air blower
- Measuring jug and water supply
- Plastic sheets or wet hessian cloth for curing
- PPE (gloves, goggles, mask)

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## SURFACE PREPARATION

### Concrete Substrates

- Concrete should be achieve there category strength
- Concrete should be at least 14 Days cured.
- Remove all dust, grease, oil, laitance, paint, and loose particles.
- Mechanically roughen the surface if required to ensure bonding.
- Saturate the surface with clean water for 12 hours prior, ensuring a saturated surface dry (SSD) condition before placement.

### FORMWORK PREPARATION

- Formwork must be **grout-tight, rigid, and well-braced** to withstand hydrostatic pressure.
- Apply a **release agent** to the internal surfaces of the formwork.
- Ensure:

- Minimum **100 mm** head space at pouring end
- **50 mm** at exit end
- Hopper of **≥300 mm height** at pouring point

- All form joints must be sealed using:

- Flowcrit UR100 (stiff mix), or
- Flexible joint sealant

### Metal Surfaces

- Remove rust, oil, paint, or mill scale.
- Surface must be clean and free from contaminants.

### Relief Vents

- Provide air-relief vents to prevent air entrapment in grout pocket.

## MIXING PROCEDURE

- recondition Flowcrit UR100 to **ambient temperature (~23°C)**.
- For **each 40 kg bag**, use **5 to 5.2 litres of clean water**.
- Add 80% of the required water into the mixer.
- Slowly add the dry grout powder while mixing
- Add remaining water and continue mixing for **minimum 5 minutes**.
- Ensure a **homogeneous, lump-free, flowable mix**

**Note:** Mechanical mixing is mandatory for consistency and

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## PLACING PROCEDURE

- Pour the mixed grout within 15 minutes of mixing.
- Pour from one side only to allow air displacement and avoid voids.
- Minimum thickness: 10 mm Maximum thickness: 100 mm
- For depths >100 mm, extend with:

- Washed SSD graded aggregate (5–12 mm)
- Up to 20 kg aggregate per 40 kg bag

Maintain continuous flow and avoid cold joints.

## CURING PROCEDURE

- Begin curing immediately after placing.
- Use one of the following methods:

- Cover with plastic sheet
- Apply wet hessian cloth
- Use approved curing compound

- Curing duration: Minimum 7 days
- Protect grout from wind, sun, vibrations, and water ingress during the curing period.

## DISPOSAL AND CLEANING

- Clean all tools with water immediately after use.
- Hardened grout should be disposed of as per local disposal regulations.

## QUALITY CONTROL CHECKS

Aspect	Free-flow grey powder
W/P Ratio, by weight	0.125 10 0.130 (Flowable)
Mix Density (Flowable)	2.4 Kg/Litre
Compressive strength, (ASTM C109, 70 mm cube)	>35 MPa at 1 Day >75 MPa at 7 Days >100 MPa at 28 Days
Tensile strength in flexure (ASTM C 348)	12 MPa at 28 Days
Expansion, Hight change% (ASTM C1090-01)	0.02 at 1 Day 0.02 at 3 Days 0.03 at 28 Days
Pot Life	35 minutes approx. @ 23°C
Dynamic load resistance Condition of Sample	Undamaged

## SAFETY AND PRECAUTIONS

- Use PPE: gloves, goggles, mask.
- Avoid skin and eye contact.
- Wash with plenty of water if contact occurs.
- Do not ingest. If ingested, seek immediate medical attention.
- Keep out of reach of children and animals.
- Avoid dumping leftover material in drains or natural water sources.

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