

# Viacrete GP2

## PRODUCT DESCRIPTION:

Viacrete GP2 is a ready-to-use, high-performance, non-shrink cementitious grout specially formulated for precise grouting in demanding construction applications. With excellent flow characteristics and reliable strength development, it is suitable for pouring or pumping into gaps ranging from 10 mm to 100 mm. It ensures full contact under base plates and eliminates voids, shrinkage, and settlement after placement.

### Technical Details

Appearance	Grey powder
Water Addition (per 20 kg)	2.9 – 4.1 L
Fresh Wet Density	~2200 kg/m <sup>3</sup>
Working Time @ 27°C	Approx. 20 minutes
Setting Time (Initial / Final)	~5.5 hrs / ~7.5 hrs
Compressive Strength (AS 1478.2)	1 Day: 30–34 MPa
	7 Days: 40–50 MPa
	28 Days: 60–75 MPa
Flexural Strength (28 Days)	~13.6 MPa
Indirect Tensile Strength (28 Days)	~6.1 MPa
Flowability (Flow Cone)	400–600 mm spread
Minimum/Maximum Placement Depth	10 mm / 100 mm

## KEY FEATURES & BENEFITS

- ✔ Non-shrink: Compensates for shrinkage in plastic state to maintain contact and volume
- ✔ High Strength: Achieves strong early and final compressive strength for heavy-duty loads
- ✔ Versatile Application: Can be poured, trowelled, pumped, or dry packed
- ✔ Pre-measured & Consistent: Supplied as a single-component dry powder
- ✔ No Chloride or Metallic Content: Prevents corrosion or staining
- ✔ Low Permeability: Durable and water-resistant for long-lasting performance

## PRIMARY APPLICATIONS

- ✔ Grouting under base plates, stanchions, and machine foundations
- ✔ Anchoring bolts, masts, and fixings
- ✔ Filling voids in precast structures
- ✔ Pile cap and column base grouting

## Mixing & Application

### 1. SURFACE PREPARATION

- ✔ Clean surfaces thoroughly: remove oil, grease, dust, or loose particles
- ✔ Roughen the concrete substrate to expose a sound surface
- ✔ Saturate the grouting area with clean water for 2–4 hours before placement and remove standing water

# Viacrete GP2

## Mixing & Application

### 2. MIXING INSTRUCTIONS

- ✔ Always use a mechanical mixer or paddle with 400–500 rpm
- ✔ Add the specified water into a mixing drum
- ✔ Gradually add Viacrete GP2 powder while mixing continuously for 3–5 minutes
- ✔ Mix until a smooth, flowable grout is formed

### 3. PLACEMENT

- ✔ Pour grout from one side to avoid air entrapment
- ✔ Maintain continuous grout flow for optimal results
- ✔ Use a grout head or reservoir to maintain pressure during placement
- ✔ For depths above 100 mm, consult Viacrete team for deep pour method

### FLOW DISTANCE GUIDE (AT 25°C)

Gap Depth	100 mm Head	250 mm Head
10 mm	320 mm	1080 mm
20 mm	850 mm	2300 mm
30 mm	1350 mm	2700 mm
40 mm	2000 mm	2700+ mm

### CURING

- ✔ Begin curing immediately after initial set  
Use Viacrete-approved curing compound or wet hessian and polythene sheet
- ✔ Continue curing for a minimum of 7 days

### YIELD

Consistency	Water (L/20kg)	Approx. Yield (L)
Stiff	2.9 – 3.6	10.6 L
Plastic	3.6 – 3.8	10.7 L
Flowable	3.8 – 4.0	10.8 L
Fluid	4.0 – 4.1	10.9 L

### SHELF LIFE & STORAGE

- ✔ Shelf life: 12 months in original sealed packaging
- ✔ Store in a dry, covered area away from moisture and extreme temperatures

### LIMITATIONS

- ✔ Do not use below 5°C or above 40°C without consultation
- ✔ Not suitable for use in continuously submerged areas unless approved
- ✔ Avoid adding excess water
- ✔ For deep pours >100 mm, contact Viacrete technical team for recommendations