



Technical Data Sheet

BC 715 Injection Grout

Elastic Polyurethane Resin-Based Injection System

1. Product Description

BC 715 Injection Grout is a two-component, low-viscosity polyurethane resin system designed for elastic sealing of cracks and voids in both wet and dry conditions in concrete and masonry structures. When mixed in the correct ratio, it expands (or reacts) to form a resilient waterproof seal that is capable of absorbing some movement and resisting hydrostatic pressure.

2. Recommended Uses

- Injection of cracks and voids in concrete, masonry, or brickwork.
- Sealing wet or dry cracks in structural concrete elements, basements, shafts, tunnels, or retaining walls.
- Repairing structures subject to water ingress, including leaking joints, honeycombing, or saturated substrates.
- Suitable also for potable water contact applications (when specified) and water-bearing substrates.

3. Features & Benefits

- Solvent-free, filler-free polyurethane system.
- Low viscosity; able to penetrate fine cracks.
- High adhesion to concrete/brick/masonry in wet or dry conditions.
- Flexible cured product capable of movement absorption.
- Excellent resistance to hydrostatic pressure.
- Good chemical resistance.
- Suitable for potable water (when tested accordingly).



4. Technical Data

Property	Test Standard	Typical Value
Mixing ratio (A : B by weight)	—	2:01
Density (mixed)	—	~1.10 g/cm ³ ± 0.05 @ 25 °C
Viscosity (mixed)	—	50 – 150 mPa · s @ 25 °C
Pot life	—	< 20 minutes @ 25 °C
Gel time	—	40 – 50 minutes @ 25 °C, 18 – 25 minutes @ 40 °C
Tensile strength (7 days)	ASTM D638	≥ 1.2 MPa
Elongation at break (7 days)	ASTM D638	≥ 80%
Modulus of Elasticity	DIN 53457	4.0 – 4.5 MPa
Shore A hardness	DIN 53505	60 – 90
Slant shear strength	AASHTO T237	≥ 1.5 MPa (7 days)
Service temperature	—	-20 °C to +70 °C

5. Application Instructions

Surface & Crack Preparation

- Clean the crack surfaces of dust, oil, grease, plaster, curing compounds and corrosion deposits.
- Drill suitable injection holes at approximately 45° to the crack and install mechanical packers.
- Blow out or flush the holes and crack to remove loose material.



Mixing & Injection

- Thoroughly mix Part A and then add Part B, using a slow speed drill with mixing paddle until homogeneous.
- Connect the 2-component pump (ratio 1:1 by volume) with static mixer nozzle.
- Inject from the lowest point or narrowest crack first, proceed sequentially, and return to start to re-inject as necessary.

Cleaning of Equipment

- Clean all equipment immediately after use with an appropriate solvent (compatible with PU) before cured product hardens. Hardened material can only be removed mechanically.

6. Packaging

Part A: 20 kg

Part B: 10 kg

Total kit weight: 30 kg (ready-to-mix set)

7. Shelf Life & Storage

- Shelf life: 12 months from date of manufacture if stored correctly.
- Storage conditions: Store in original sealed containers in a cool, dry, congenial area at temperatures between +10 °C and +30 °C.
- Protect from direct sunlight, moisture, and frost.

8. Health & Safety

- Avoid contact with skin and eyes; use protective gloves and goggles.
- Use adequate ventilation during mixing and injection.
- In case of skin/eye contact: rinse immediately with plenty of clean water; seek medical advice if necessary.
- Consult the latest Safety Data Sheet (SDS) for full handling and disposal instructions

DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

