Injection Grouting System

BC W-210 Hydrophobic Polyurethane Grout

DESCRIPTION

BC W-210 is a low-viscosity, single-component hydrophobic polyurethane injection grout formulated to react with water and form an expanding foam. It is designed to seal active water leaks, cracks, joints and voids in concrete structures. The cured foam helps resist hydrostatic pressure and can penetrate fine cracks and chips below approximately 0.4 mm, subject to site conditions and correct injection practice.

TYPICAL USES

- Active water leakage in concrete
- Concrete cracks and construction joints
- Basements and retaining walls
- Bathrooms and wet areas
- Tunnels, subways, dams and bridges

APPLICATION GUIDANCE

1. Identify the leakage path and remove loose plaster, laitance and unsound concrete.
2. Drill injection holes at an appropriate angle and spacing for the crack or joint.
3. Install mechanical injection packers securely.
4. For large voids or settlement joints, repair and stabilise the substrate before injection.
5. Inject BC W-210 using suitable high-pressure equipment until the leakage is sealed.
6. Allow the reaction to complete, remove packers, and repair injection holes with compatible mortar.



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BUILDING COMFORTS™
The Water Proofing Company

TECHNICAL DATA

Property	Typical value
Type	Hydrophobic polyurethane injection grout, single component
Appearance	Homogeneous liquid, free from visible impurities and stratification
Colour	Deep brown
Solid content	> 90%
Viscosity at 23°C	258–320 mPa·s
Density	Approx. 1.075 g/mL
Typical curing time	Approx. 244 seconds, depending on water ratio and conditions
Non-volatile content	Approx. 86%
Foaming capacity	Up to 2276% under stated test conditions
Compressive strength	Approx. 12 MPa

REACTION GUIDE

BC W-210 to water	Cream time	Gel time	End product
1:1	20–30 sec	50–60 sec	Expanded foam
1:4	60–80 sec	110–130 sec	Expanded foam
1:5	80–100 sec	120–140 sec	Expanded foam
1:10	3–4 min	6–8 min	Expanded foam
1:12	4–6 min	14–16 min	Gel
1:15	14–16 min	35–40 min	Soft gel

Reaction times and foam development depend on water ratio, temperature, moisture and site conditions. Trial application is recommended. The source contains no graphs.



PACKAGING AND STORAGE

Item	Details
Pack size	5 kg bucket
Origin	Made in China
Storage	Store dry, frost-free and out of direct sunlight. Protect from rain, heat, fire and physical damage.
Shelf life	12 months in unopened original packaging under recommended storage conditions.

SAFETY PRECAUTIONS

Wear protective clothing, chemical-resistant gloves and safety goggles. Avoid contact with skin and eyes. Ensure good ventilation and keep away from heat, sparks and open flames. Do not return mixed or contaminated material to the container. Clean equipment immediately with a suitable cleaner. Keep away from children. Consult the current Safety Data Sheet before use.

IMPORTANT NOTICE

The information in this technical sheet is based on available test data and practical experience. Values are typical and not specifications. Site conditions, substrate condition and application methods can affect performance. The user must verify suitability through site trials and follow applicable safety requirements. BUILDING COMFORTS reserves the right to update this sheet without notice.

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