BUILDING COMFORTS™
The Water Proofing Company

BC W-210

HYDROPHOBIC POLYURETHANE GROUT
TECHNICAL DATA SHEET

MADE IN CHINA	SINGLE COMPONENT	5 KG PACK	KARACHI

PRODUCT 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

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; varies with water ratio and conditions
Non-volatile content	Approx. 86%
Foaming capacity	Up to 2276% under stated test conditions
Compressive strength	Approx. 12 MPa

BUILDING COMFORTS™
The Water Proofing Company

APPLICATION GUIDANCE

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



REACTION GUIDE

BC W-210 : WATER	CREAM / GEL TIME	END PRODUCT
1 : 1	**Cream 20-30 sec; gel 50-60 sec**	Expanded foam
1 : 4	**Cream 60-80 sec; gel 110-130 sec**	Expanded foam
1 : 5	**Cream 80-100 sec; gel 120-140 sec**	Expanded foam
1 : 10	**Cream 3-4 min; gel 6-8 min**	Expanded foam
1 : 12	**Cream 4-6 min; gel 14-16 min**	Gel
1 : 15	**Cream 14-16 min; gel 35-40 min**	Soft gel

Reaction times and foam development depend on water ratio, temperature, moisture and site conditions. Trial application is recommended.

PACKAGING & STORAGE

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.

0301-2228210 | 021-35245132 | info@buildingcomforts.com
Office No. 4, Plot 40-C, 12th Nishat Commercial Lane, DHA Phase-6, Karachi - Pakistan
www.buildingcomforts.com

Distribution in Pakistan
BUILDING COMFORTS™
The Water Proofing Company