



BJR 40

Block Joint Mortar

Pack Size
40Kgs & 25Kgs

TDS Technical Data Sheet



Description

BJR - 40 is a high-quality, ready-to-use, grey cement-based, non-shrink, self-curing mortar specifically designed for fixing and jointing AAC blocks, concrete blocks, and fly ash bricks. This advanced formulation provides superior adhesion, workability, and long-term durability compared to conventional mortars.

Key Features & Benefits

- **Ready-to-use formulation** – Only requires water to be added, ensuring ease of application.
- **Superior adhesion strength** – Enhances overall masonry stability and bond strength.
- **Thinner jointing material** – Reduces material consumption and improves cost-effectiveness.
- **Faster application** – Excellent spreadability for quick and efficient work.
- **High strength and water retention** – Ensures durable and robust masonry joints.
- **Self-curing properties** – Eliminates the need for additional curing, saving time and resources.

Recommended Uses

- **Masonry construction** – Ideal for fixing AAC blocks, concrete blocks, and fly ash bricks.
- **Residential and commercial buildings** – Suitable for walls in homes, apartments, offices, and industrial units.
- **Interior and exterior applications** – Designed for use in both indoor and outdoor masonry work.

Technical Specifications

Property	Value	Test Standard
Chemical Base	Cementitious mortar modified with polymers	
Appearance/Color	Grey powder	
Packaging	40 kg & 25 kg bags	

Shelf Life	6 months from production date	
Storage Conditions	Store in original sealed packaging in a cool, dry place, away from moisture	
Bulk Density	~1.33 kg/L (at 27°C)	
Compressive Strength (28 days)	≥ 6 N/mm ²	EN 1015-11
Tensile Adhesion Strength	≥ 0.8 N/mm ²	EN 1348
Consumption	~3 - 4 kg per m ² for a 3 mm joint thickness	
Layer Thickness	3-4 mm	
Ambient Air Temperature	+5°C to +45°C	
Substrate Temperature	+5°C to +45°C	
Pot Life	90 minutes	

Surface Preparation:

The substrate must be structurally sound, laitance-free, clean, and free from dust, oil, grease, and other contaminants. Pre-wetting of the substrate is essential, ensuring maximum water saturation while maintaining a Saturated Surface Dry (SSD) condition.

Mixing Instructions

- Water-to-Powder Ratio: 0.22 to 0.24 by weight (6.6L to 7.2L water per 30 kg bag)
- Mixing Time: Minimum 3 minutes for uniform consistency.
- Mixing Equipment: Use a forced action mixer, drill, or paddle (<500 rpm). A standard concrete mixer is not suitable.
- Allow the mix to stand for 5 minutes before final remixing for 15 seconds. The product is then ready for use.

Application Guidelines

- Apply a thin, uniform layer (2-3 mm) of BJR - 40 on the clean and levelled surface of masonry units using a trowel.
- Place the next masonry unit in position by gently pressing it onto the mortar bed while ensuring proper alignment.
- Ensure mortar application on vertical joints before placing the next unit, particularly in brick masonry work.
- Remove excess material immediately.
- Do not disturb the setting for at least 24 hours.

Cleaning of Tools

All tools and equipment should be cleaned immediately with water after use. Hardened or cured material can only be removed mechanically.

Limitations

- Cementitious substrates must be at least 28 days old before applying BJR - 40.
- Do not exceed the recommended water dosage, as excess water can weaken the mortar.
- Apply only to structurally sound, prepared substrates.
- Do not exceed the maximum layer thickness of 4 mm.
- Protect freshly applied mortar from freezing, direct rain, and harsh weather conditions.

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Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.