



RP 21C

2K High Build Polymer Modified
Cementitious Reinstatement Mortar

Pack Size
11Kg

TDS Technical Data Sheet



Product Description

CLI RP 21C is a lightweight, polymer-modified, cementitious repair mortar designed for high-build applications. It offers excellent resistance to chloride ions and the diffusion of acidic gases such as carbon dioxide. This product is formulated with special preblended cements, graded sand, and chemical additives to provide compatibility with concrete and outstanding water-repellent properties. CLI RP 21C can be applied in thicknesses from 10mm to 40mm on vertical surfaces and up to 25mm in overhead situations.

Advantages

CLI RP 21C allows for high-thickness application in vertical and overhead situations. It has extremely low permeability, offering maximum protection against carbon dioxide and chlorides. The product bonds excellently to concrete substrates and is shrinkage-compensated, ensuring long-term stability. Supplied in pre-weighted, pre-packed condition, CLI RP 21C requires only the addition of water at the site during mixing. It contains no chlorides, making it a safe choice for concrete repair.

Application Methodology

To prepare the repair area, saw cut or cut back the extremities of the repair locations to a depth of at least 10mm. This prevents feather edging and provides a square edge. Break out the complete repair area to a minimum depth of 10mm up to the saw edge. Thoroughly clean both surfaces to ensure the removal of dust and other loose particles. Moistening the surface before application is recommended, but standing water should not be present.

Apply the primer to the prepared surface. For a single bag application, place approximately 2.75 liters of drinking-quality water in the mixer. Add the supplied liquid polymer part and, with the machine in operation, gradually add the CLI RP 21C powder. Mix for 2 to 3 minutes. Depending on the ambient temperature and desired consistency, you may add a small additional amount of water, but the total water content should not exceed 3.25 liters. Apply the mixed CLI RP 21C to the primed substrate using a gloved hand or trowel, thoroughly compacting the mortar onto the substrate and around any exposed reinforcement.

Technical Specifications

Compressive Strength (N/mm ²):	3 days: 12 7 days: 16 28 days: 20
Water Absorption (ml/m ² /sec):	10 minutes: 0.01 2 hours: 0.005
Coefficient of Thermal Expansion (°C)	: 7-12 x 10 ⁻⁶

Flexural Strength (N/mm ² , 28 days)	4.5
Tensile Strength (N/mm ² , 28 days):	1.7
Setting Time (hours):	Initial setting: 2 Final setting: 5
Fresh Wet Density (kg/m ³):	Approximately 1600

Cleaning

Clean all tools immediately after use with clean water. Do not allow the material to harden.

Health & Safety

Use goggles and hand gloves during application. Clean hands with warm soap water after application.

Packaging

CLI RP 21C is available in 25 kg bags.

Pack Size

11Kg



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.