TECHNICAL DATA SHEET



CMI® NS FIBREPATCH 228

Updated Dec'23

DESCRIPTION

CMI® NS FibrePatch 228 is a general-purpose cement-based mortar specially designed to repair the damage on structure and filling the gap between precast concrete wall. It is reinforced with synthetic fiber and had controlled shrinkage that make it suitable for patching and resurfacing of concrete substrates up to 35 mm thickness including overhead surfaces in repair, fixing and general construction works.

USES

- Repair of concrete surfaces such as honeycomb and spalling, tie-rod holes in formwork concrete, protruding steel and etc.
- Securing foundation and anchor bolts, pipe-clips, sanitary ware, and hinges.
- Filling concrete cavities in electrical, piping and air-conditioning works.
- Filling of gaps between precast concrete wall.
- Concrete restructuring: pillars, slabs, posts, stairway.
- Reinforcement of weakened structures e.g. balconies, overhangs, cornices.
- Treatment of passive cracks.

ADVANTAGES

- High application thickness up to 35mm
- High compressive strength
- Excellence bonding
- · Good workability
- · Very low shrinkage behavior

FibrePatch 228 25kg Grey Concrete	Product Type	Product Code	Pack Size	Color	Substrate
	FibrePatch	228	25kg	Grey	Concrete

Technical Data

Appearance	Grey Powder		
Wet Density	~ 2100 kg/m³		
Mixing Ratio	18 – 20% water		
Maximum Grain Size	2.0mm		
Pot Life	90 mins		
Recommended Thickness	Up to 35mm		
Tensile Strength In	≥ 5 MPa (1 day)		
Flexure	≥ 6 MPa (7 dyas)		
	≥ 8 MPa (28 days)		
Compressive Strength	≥ 20 MPa (1 day)		
	≥ 30 MPa (7 days)		
	≥ 45 MPa (28 days)		
Chloride Ion Content	~ 0.015%		



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Surface Preparation

Ensure that the substrate is free of any traces of contaminants e.g. grease, oil, laitance, coatings and dust which will inhibit proper adhesion to the substrates. Remove loose and damaged concrete by means of a suitable tool in order to obtain a clean, rough surface. Clear out concrete around corroded rebar in order to create space for inserting the product behind and around them. The boundaries of the surface to be repaired must be clearly defined. Brush, scrape or sandblast corroded rebar in order to remove non-adherent rust. Dust off all surfaces to be repaired. Soak the substrate to saturated-surface-dry condition (no standing water) prior to application.

Mixing

Gradually add 25kg **CMI® NS FibrePatch 228** to 4.5-5.0 liter of clean water while mixing continuously at low speed. *Do not add cement or lime into the mixture*. Mix thoroughly for 3-5 minutes using mechanical mixer until the homogenous paste is achieved and lump-free. Re-mix if the mixture is left unattended for more than 30 minutes. Do not add water after mixing.

Application

- 1. Apply a first coat of **CMI® NS FibrePatch 228** with a flat trowel with no need for formwork even on vertical and overhead surfaces, pressing firmly to ensure effective bonding. Build up to the required thickness in one single operation. A maximum thickness is 35 mm. In the case of repairing the corner of the concrete column, use 2 flat trowels on each side of the corner to prevent over-use of mortar on the corner. Apply additional mortar to obtain the desired overall thickness after the first coat about 70-80% sets. Smoothen the surface with a trowel or sponged the repaired surface for a coarse finish
- 2. For fixing and anchoring applications, fill the prepared cavity progressively with the mortar, tamping down to make sure it is completely filled with no voids before inserting bolt, plate, hinge, etc. Finish the surface with a trowel.
- 3. For filling up the joint between precast panel, ensure the joint is pre-wet with water prior to application of **CMI® NS FibrePatch 228**. Use grouting mortar pump to spray the mortar in between the joint from bottom to top. Remove excess mortar from the joint using trowel.

Coverage

Approximately 19kg of powder/10mm thickness/m² depending on substrate roughness and thickness of layer applied.

Cleaning

Clean up equipment with water immediately after use.



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Safety Precautions

- Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid inhaling dust during handling or mixing of products.
- · Use only in well-ventilated area.
- In case of inadequate ventilation wear respiratory protection. In case inhaled, remove patient to fresh air and allow to rest.
- In case swallowed, do not induce vomiting. Rinse mouth clear with water and drink two glasses of water.
- In case contact with eye, immediately rinse with plenty of water and seek medical advice.
- Remove splashes from skin by using soap or water.
- Products must always be stored in a cool, dry and well-ventilated area.
- When transporting products, care must be taken. Always keep products dry and avoid generating or accumulating dusts during handling.
- Disposal of product should always comply with local and national regulations.

Shelf Life & Storage

Six (6) months when stored in cool and dry condition.

Note

The information provided on this datasheet is not intended to be complete and is provided as general advise only. It is the user's responsibility to ensure that the product is suitable for its intended purpose. As we have no control over the treatment of the product, the standard of surface preparation, or other factors, we are not responsible for any damages or injury, including but not limited to special or consequential damages which may result from the use of our products, which includes any damages or injury caused by any failure of performance. The information contained in this datasheet may be modified by us from time to time, without any notice arising from our continuous product development activities.