

CMI® MORTAR BOND 330
Updated Mar'22

DESCRIPTION

CMI® Mortar Bond 330 is a ready to use, multipurpose latex emulsion polymer specially designed for use in a variety of building applications whether internally or externally. It is suitable for use at dry or wet areas to improve the physical and chemical properties of the mortar.

USES

- As a primer for surface enhancement on porous surfaces i.e., ALC / AAC blocks, building boards and tiles.
- A latex admixture to be used for slurry bond coat or splash coat.
- It can also be used for cement mortars for patching or reconstructing damaged parts and finishing surfaces on buildings and precast concrete elements.
- Protection of steel/ metal sheet from rusting.

ADVANTAGES

- Extensive range of applications.
- Excellent adhesion and shear bond strength.
- Excellent flexibility to absorb vibration of substrate and reduce shrinkage.
- Excellent water and impact resistance.
- Good corrosion resistance to steel surface.

| Product Type | Product Code | Pack Size | Color | Substrate |
|-----------------|--------------|-----------|--------------------|---------------------------------------|
| Latex Admixture | 330 | 4L / 20L | Milky White Liquid | Concrete, block, cement render, tiles |

Technical Data

| | |
|------------------------------|--|
| Appearance | Milky White Liquid |
| Specific Gravity | 1.01 |
| Viscosity | 150 – 200 mPa.s. |
| pH | 9 - 10 |
| Hazard Classification | None |
| Mixing Ratio | Refer to Table of Mixing Ratio & Coverage (Section: Mixing) |

Recommended Total Coating & Construction System
SEMI-EXPOSED WALL SYSTEM
(I) Block Wall / Concrete Wall

| TYPES | PRODUCT NAME | NOMINAL THICKNESS |
|--|---|-------------------|
| Surface Enhancement - <i>Optional</i> | : CMI® Mortar Bond 330 | : 1 coat |
| Skim Coat (Base Coat) | : CMI® Base Mortar 781 / 381 (OR) | : 2-3mm |
| | : CMI® BlockSkim 782 (<i>Optional for block wall</i>) | : 3-5mm |
| Skim Coat (Top Coat) | : CMI® Wallskim 281 SP / 681 SP / 488 SP | : 1-2mm |
| Paint (Sealer/Primer) | : Nippon Paint Exterior Sealer Range | : 1 coat |
| Paint (Finishing Coat) | : Nippon Paint Exterior Finishing Range | : 2 coats |

Note:

- Kindly refer to the respective technical datasheet for more information.
- For other areas not specified, please consult **Nippon Paint / CMI®** Technical Representatives for more information.

Mixing
Table of Mixing Ratio & Coverage

| Application | Mixing Ratio | Coverage / Consumption |
|--------------------|--|--|
| Slurry Coat | 1 part of 330 : 1.5 cement | 0.4 L/m ² per mm thickness |
| Splash Coat | 1 part of 330 : 1.5 cement: 1.5 wash sand | 0.4L/m ² per mm thickness |
| Cement sand mortar | 1 part of 330 : 4 cement : 12 wash sand | 0.1-0.15 L/m ² per mm thickness |
| Tile Adhesive | 1 part of 330 : 3.5 CMI® TileFix 181 or 1 part of 330 : 3.5 MultiFix 188 <i>(*Also applicable for other CMI® tile adhesives range, i.e., TB111, TF333, etc.)</i> | 0.19 L/m ² per 5mm thickness |
| Neat Primer | Direct application | 0.1 L/m ² per coat |

Application

PRIMER FOR SURFACE ENHANCEMENT ON AAC BLOCKS, BUILDING BOARDS AND EXISTING TILES

Fixing of ceramic tiles onto building boards such as plywood, fiber cement board, gypsum plaster board, vinyl tiles or existing ceramic tiles can be done by priming with a layer of neat **CMI® Mortar Bond 330**. Allow primer to touch dry (within 10-15 minutes) before fixing ceramic tiles using **CMI®**'s range of adhesive. This will seal surface dust, protect boards from moisture and enhance adhesion to the substrate. Please consult **CMI®**'s Technical Representative for more information.

2K CEMENT-BASED TILE ADHESIVE

Fixing of ceramic tiles onto flexible substrate such as plywood, fibre cement board, gypsum plaster board required the use of flexible tile adhesive to enhance the flexibility and adhesion onto the substrate. Therefore, it is recommended to mix cement-based tile adhesive with **CMI® Mortar Bond 330** for this application.

Pour 7-8 litres of **CMI® Mortar Bond 330** into a clean container. Slowly add in 25kg cement-based tile adhesive into the container and mix with a low speed mechanical mixer until a homogenous mortar is obtained without lump. Apply the mortar with a suitable notched trowel depending on the tile size. Excess adhesive on tile surface must be clean immediately as hardened material may be difficult to remove.

PATCH REPAIR OF CRACKED CONCRETE

Saw cut along cracks to create a 'V' shape groove with at least 1" depth. Clean joints of any contaminations. Apply a layer of **CMI® Mortar Bond 330** followed by immediate patching with a 1:3-4 parts cement sand mortar mixed with **CMI® Mortar Bond 330**. Alternatively, used as splash coat for primer application prior to application with cement sand mortar.

PROTECTION OF STEEL/ METAL SHEET

Mix 1 part **CMI® Mortar Bond 330** with 1.5 part Portland Cement by weight until slurry. Apply onto steel bar or metal plate using brush to prevent rusting.

DIRECT TILING ONTO STEEL/ METAL PLATE

Mix 1 part **CMI® Mortar Bond 330** to 1.5 parts Portland Cement by weight or alternatively 1 part **CMI® Mortar Bond 330** to 1 part **CMI® Cement-Based Tile Adhesive** by volume to a slurry consistency. Brush onto steel/metal surface. Allow to set for 24 hours before tiling using **CMI® TileFix 181** mixed with **CMI® Mortar Bond 330**.

Coverage

Refer to **Table of Mixing Ratio & Coverage** (Section: Mixing)

Cleaning

Clean up equipment with water immediately after use.

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.
- Precaution should be taken to avoid skin or eye contact or swallowing the product.
- Use adequate ventilation to avoid high vapour concentrations.
- When handling or mixing the product, avoid inhaling vapour.
- 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 plenty 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 the product, care must be taken. Always keep container in a secure upright position.
- Disposal of product should always comply with local and national regulations.

Shelf Life & Storage

At least 12 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.