

**CMI® MORTAR ADMIX 380**

Updated Mar'22



**DESCRIPTION**

**CMI® Mortar Admix 380** is a ready to use, multipurpose latex emulsion polymer specially designed for use with cement sand mortar, **Nippon CMI**'s range of cement-based tile adhesive and cement-based coloured grouts to improve the physical and chemical properties of the mortar. It is a certified as low VOC paint / surface coating by Singapore Environment Council.

**USES**

- A latex admixture to be used as an additive to improve mechanical and bonding characteristics of cement mixes for screeds, renders, etc. when apply onto concrete surfaces.
- When mixed with **CMI®** cement-based tile adhesives, it helps to improve impact resistance, flexibility and bonding strength of the cement-based tile adhesives. The improved tile adhesives can be used to fix ceramic tiles onto concrete, cement render, blockwall, rendered surfaces for dry and wet areas, including swimming pools tiling, tiles on tiles applications.
- When mixed with **CMI®** coloured grouts, it helps to improve adhesion, compactness and water resistant of coloured grouts.

**ADVANTAGES**

- High adhesion and shear bond strength to renders / screeds.
- High bonding strength, and flexibility of cement-based tile adhesive performance.
- High water and impact resistance.
- Reduce staining and efflorescence
- Environmental preferred coating certified with Singapore Green Label Scheme by Singapore Environmental Council.

Product Type	Product Code	Pack Size	Color	Substrate
Latex Admixture	380	4L / 20L	Milky White Liquid	Concrete, block, cement render, tiles

**Technical Data**

Appearance	Milky White Liquid
Specific Gravity	1.01
Viscosity	250 – 350 mPa.s
pH	9 - 10
Hazard Classification	None
Mixing Ratio	Refer to <b>Table of Mixing Ratio &amp; Coverage</b> (Section: Mixing)

**Mixing**
**Table of Mixing Ratio & Coverage**

Application	Mixing Ratio	Coverage / Consumption
Cement sand mortar	1 part of <b>380</b> : 1 cement: 3-4 wash sand	0.1 L/m <sup>2</sup> per mm thickness
Screed/ Render	1 part of <b>380</b> : ~18 % of total dry materials <i>(diluted 1:1 with clean water)</i>	0.1 L/m <sup>2</sup> per mm thickness
Tile Adhesive	1 part of <b>380</b> : ~28% <b>CMI® TileFix 181</b> 1 part of <b>380</b> : ~28% <b>CMI® MultiFix 188</b>	7.0 – 8.0L per 25kg tile adhesive
Coloured grouts	1 part of <b>380</b> : ~ 44% of total dry materials <i>(diluted 1:1 with clean water)</i>	0.44 L/kg tile grout

**Surface Preparation**

**CMI® Mortar Admix 380** can be used for screeds, renders and leveling plasters on any cementitious surface that are solid, strong, sound and clean. Crumbling and loose particles, dust, traces of oil or form release agents, and existing paint must be removed by careful sandblasting, brushing or high-pressure water jetting. Substrates that are very dry should be wetted down to a saturated surface dry condition.

**Application**
**SCREED & RENDER**

Pour **CMI® Mortar Admix 380** into a clean container, and dilute it with an equal part of water. Add the required amount of diluted latex additive into concrete mixer drum. Slowly add 1 part cement and 3-4 parts sand into the concrete mixer drum and mix with a low-speed mixer until a homogeneous mortar is obtained without lump. Apply the mortar with a trowel to the required thickness. After application, especially in very warm or windy weather conditions, the mortars made with **CMI® Mortar Admix 380** as additive must be protected and cured carefully to avoid fast water evaporation, which could cause surface cracking due to plastic shrinkage. Spray with water mist during the first two days of curing or protect the mortars with polyethylene sheets.

**2K CEMENT-BASED TILE ADHESIVE**

Pour 7-8 litres of **CMI® Mortar Admix 380** into a clean container. Slowly add in 25 kg 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.

**CEMENT-BASED TILE GROUT**

Pour **CMI® Mortar Admix 380** into a clean container, and dilute it with an equal part of water. Slowly add coloured grout into the container and mix with a low-speed mechanical mixer until a homogeneous mortar is obtained without lump. Ensure pigments are thoroughly dispersed during mixing. Apply grout into joints using a rubber squeegee, ensuring joints are fully compacted with grouting mortar. Clean excess grouting mortar promptly using a damp cloth or sponge before it hardens.

**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 conditions.

**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.*