

CCI NEO TILEFIX ULTRA

Single pack Water-resistant Cementitious Polymer-modified Tile Adhesive for Vitrified Tiles and Natural Stones

Description

CCI Neo Tilefix Ultra is a highly polymer-modified, easy-to-use, thin-set, water-resistant, single component, cementitious polymer-modified high strength tile adhesive in powder form for fixing vitrified tiles, semi-vitreous, ceramic, mosaic, marble, and granite tiles.

Domains of Application

- ✓ Bonding vitrified tiles, ceramic, terracotta, pavers, bricks, mosaic, marble, granite, large format tiles, precast terrazzo, low thickness slabs, etc.
- ✓ Cement-based screeds/bed, gypsum and cement-based plasters/renders, concrete surfaces and bricks, existing tiles and stones, waterproofing products, other cement-based surface.
- ✓ Floor and walls for internal area, floor for external area, dry and wet area like saunas, spa, fountains, domestic applications, commercial applications
- ✓ Can be used in shower recesses and swimming pools where continuous or intermittent immersion in water occurs

Advantages

- ✓ High adhesion, high polymer modification that enables bonding with a wide range of substrates, making it ideal for fixing a variety of tiles and stones.
- ✓ Easy- to-use – Just add water on site, ready to use.
- ✓ Sagging Resistance Mixture – offers effortless use on walls that are vertical.
- ✓ Suitable for damp environments due to its water and shock-resistance quality and thus suitable for commercial floor
- ✓ Does not fade with heat, so it's perfect for high temperature ranges and hot temperature applications such as saunas and jacuzzis
- ✓ Low volatile organic compounds for a healthy lifestyle.

Technical Information Application Properties

Technical Properties	Test Results
Mixing Ratio (Powder: Water)	1: 026 by weight
Mixed Density	1.65 ± 0.05 kg/L
Open time	30 minutes Minimum
Adjustability	~25 minutes
Pot life	~120 minutes
Sag/Slip	≤ 0.5 mm
VOC Content (As per EPA 24 method)	< 1.2 g/kg
Application temperature (Substrates and Materials)	5°C to 35°C
Adhesive Thickness	3 to 12 mm
Setting/Trafficable/Grouting time	24 hours

Performance Properties as per ISO 13007 and EN 12004 (C2TE)

Testing Properties	Requirement	Test Results
Tensile Adhesion Strength, after 28 days	≥ 1.0 N/mm ²	≥ 1.2 N/mm ²
Tensile adhesion strength after water immersion	≥ 1.0 N/mm ²	≥ 1 N/mm ²
Tensile adhesion strength after heat ageing	≥ 1.0 N/mm ²	≥ 1.1 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²
Slip resistance	≤ 0.5 mm	≤ 0.5 mm
Extended open time (at 30 minutes)	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²

Performance Properties as per ISO 15477: 2019 (Type 2 'T')

Testing Properties	Requirement	Test Results
Tensile Adhesion Strength, after 28 days	≥ 1.0 N/mm ²	≥ 1.2 N/mm ²
Tensile Adhesion at wet condition	≥ 1.0 N/mm ²	≥ 1 N/mm ²
Shear Adhesion at dry condition	≥ 1.25 N/mm ²	≥ 1.2 N/mm ²
Shear Adhesion at wet condition	≥ 1 N/mm ²	≥ 1.1 N/mm ²
Shear Adhesion at heat ageing	≥ 1 N/mm ²	≥ 1.1 N/mm ²

Method of Application

Substrate Preparation

- ✓ It is necessary for the substrate to be level, cured, intact, compact, stiff, resistant, dry, and free of any agents that cause debonding as well as damp rising.
- ✓ All surfaces must be plumb and true to within 6 mm in 10 feet. (3 m).
- ✓ Damp, dusty surfaces should be dampened with water, and any extra should be swept away.
- ✓ Prior to application, freshly laid concrete slabs must be damp cured and 28 days old, as this will minimise shrinkage on the tile fixing surface.
- ✓ Expansion joints must be installed and properly sealed.
- ✓ Avoid covering expansion joints with tile or thin set adhesive.

Mixing

- ✓ Add 3 to 3.5 parts of powder to 1 part of water or 5 L to 6 L water for 20 kg powder in a clean mixing vessel.
- ✓ Adjust the water as per desired consistency. Mix with a suitable mechanical stirrer or slow speed drills (50 rpm to 100 rpm) until a lump-free homogeneous paste is obtained.
- ✓ Always mix the required quantity, which can be consumed within pot life.
- ✓ Leave mixture for 5 minutes before use. No further water should be added.

Application

- ✓ Apply adhesive to the substrate with the flat side of the trowel.
- ✓ Comb on additional adhesive with the notched side.
- ✓ Use the proper sized notched trowel to ensure full bedding of the tile.
- ✓ Tiles must be fixed within 20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.

- ✓ Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive, and apply fresh adhesive.
- ✓ Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- ✓ Leave no voids behind tiles.
- ✓ For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- ✓ Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- ✓ Leave adequate joints between individual wall and floor tiles spacers. The joint width shall be as per the recommendation of architect/engineer.
- ✓ Clean off surplus adhesive from the tile face and between joints.
- ✓ Clean tools and tile work with water while adhesive is fresh.

Grouting

Grouting should be carried out after 24 hours of tiling. Use the appropriate grouting material from CCI range of cementitious and epoxy grouts.

Limitations & Precautions

- ✓ Always add powder to water
- ✓ Do not add excess water than recommended.
- ✓ Do not use the adhesive to correct surface irregularities greater than 15 mm.
- ✓ Do not use on wet screed.
- ✓ Protect from direct rainfall/foot traffic for at least 24 hours.
- ✓ Preferably store in sealed conventional containers, protected from extreme weather conditions.
- ✓ Clean all tools and application equipment with water before it set. Clean immediately after use. Hardened / cured material can only be mechanically removed.

Packaging

20 kg bags.

Shelf Life & Storage

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C.

Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

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