

## Technical Information

# RENAFIX 211

## Premium Cementitious tile adhesive for floor and Walls

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<b>Overview</b>	A premium cementitious polymer modified tile adhesive designed for the installation of all types of medium format Ceramic tile and small format natural stones over concrete and on a variety of cement substrates.
<b>Key Features</b>	<ul style="list-style-type: none"> <li>◆ Ready to use, Just add water.</li> <li>◆ Easy mixing and application</li> <li>◆ Excellent adhesion, low shrinkage</li> <li>◆ For fixing Ceramic tiles over floors and walls</li> <li>◆ Formulated with locally sourced minerals</li> <li>◆ Contribute to LEED points</li> </ul>
<b>Standards</b>	<ul style="list-style-type: none"> <li>◆ RENAFIX 211 exceeds the performance requirements of IS 15477: 2019 Type 1;</li> <li>◆ Complies with EN 12004: 2017 and ISO 13007: 2010 with Class “C1” and “T” Characteristics</li> <li>◆ Exceeds ANSI A118.1: 2019 Shear bond Strength requirements</li> </ul>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>◆ For Interior Walls and Floors</li> <li>◆ Can be used for a variety of medium format Ceramic tiles and Small format natural stones</li> <li>◆ Suitable for Substrates like, Concrete, Concrete Masonry, Concrete Slabs, Cement Mortar Beds, Cement Plaster, Brick Masonry, Cement Terrazzo, Precast Terrazzo, Cement Screed, Conventional renders, Cement mortar Walls, Existing Natural Stone, etc.</li> </ul> <p><b>Note:</b> Contact Our Technical Services for recommendations.</p>
<b>Installation</b>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>◆ All Substrates should be structurally sound, clean and free from any kinds of debonding agents, dust, grease, oils, paint, release agents, etc..</li> <li>◆ Clean the area and completely remove all the construction debris before the application.</li> <li>◆ All tile and non-porous surfaces should be cleaned well with neutral water based cleaner followed by cleaning with water.</li> </ul> <p><b>Mixing</b></p> <ul style="list-style-type: none"> <li>◆ Use clean, potable water for mixing</li> <li>◆ Add Renafix 211 to the clean water into the mixing pot.</li> <li>◆ Use approximately 4 to 5 L of water for 20 kg of Powder.</li> <li>◆ Use a slow speed mixer for mixing or mix it by hand.</li> </ul> <p><b>Application</b></p> <ul style="list-style-type: none"> <li>◆ Always, Use an appropriate Standard notched trowel for application.</li> <li>◆ Spread the tile adhesive not more than 1 sq. m. at a time, comb it to the required depth using a suitable notched trowel.</li> <li>◆ Place the tile/stone in the wet adhesive and adjust the tile by pressing the tile firmly into a position with a twisting action.</li> <li>◆ Use a beating block or a Rubber mallet to embed the tile properly.</li> </ul> <p><b>Protection</b></p> <p>Protect the surface against rain for at least 24 hours.          Keep the floor away from general foot traffic for at least 24 hours after application.          Prohibit heavy foot traffic for 14 days.</p>

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### Grouting

Grout installation shall be carried out after 24 hours of application.

Note: Wall joints can be grouted after 7 to 8 hours of application and floor joints after 24 hours of application.

Technical Data (typical values)		
<b>General</b>		
Bulk density (kg/m <sup>3</sup> )	1500	
Dry Solid Content	100	
<b>Application</b>		
Mixing ratio	100 Parts of Renafix 211 with 25 to 27 parts of water (by weight)	
Density of the mix (kg/m <sup>3</sup> )	1100	
pH of the mix	13	
Pot life	3 to 4 hours	
Application Temperature	5 to 40 °C	
Open time	10 to 15 minutes	
Time to Heavy traffic	24 hours	
Ready for grouting	24 hours	
<b>Performance</b> (Renafix 211 mixed with water)		
Parameters	Requirement	Typical Values
Tensile Adhesion Strength IS 15477: 2019 Dry Condition Annex A (Clause 5.1)	Minimum 0.50 N/mm <sup>2</sup>	0.75 to 0.85 N/mm <sup>2</sup>
Shear Adhesion Strength IS 15477: 2019 Dry Condition Annex A (Clause 5.2)	Minimum 1.0 N/mm <sup>2</sup>	1.20 to 1.25 N/mm <sup>2</sup>
Slip Resistance IS 15477: 2019 Dry Condition Annex E (Clause 5.5)	≤ 0.50 mm	0.15 to 0.20 mm
IS 15477: 2019 Classification	The adhesive confirms to IS 15477 Type 1T	
Open time (EN 1346)	≥ 0.50 N/mm <sup>2</sup>	0.70 to 0.75 N/mm <sup>2</sup>
Initial tensile adhesion Strength (EN 1348 Clause 8.2)	≥ 0.50 N/mm <sup>2</sup>	0.75 to 0.85 N/mm <sup>2</sup>
Tensile adhesion Strength after water immersion (EN 1348 Clause 8.3)	≥ 0.50 N/mm <sup>2</sup>	0.75 to 0.85 N/mm <sup>2</sup>
Tensile adhesion Strength after heat ageing (EN 1348 Clause 8.3)	≥ 0.50 N/mm <sup>2</sup>	0.65 to 0.70 N/mm <sup>2</sup>
EN 12004: 2017/ISO 13007: 2010 Classification	The adhesive confirms to EN 12004/ISO 13007 as C1T	
Glass wall tile Shear adhesion Strength (7 days: ANSI A118.1 – Clause 7.1.2)	> 200 psi (1.38 N/mm <sup>2</sup> )	210 to 240 psi (1.44 to 1.65 N/mm <sup>2</sup> )
Glass wall tile Shear adhesion Strength after water immersion (7 days: ANSI A118.1 – Clause 7.2.4)	> 100 psi (0.68 N/mm <sup>2</sup> )	140 to 150 (0.96 to 1.03 N/mm <sup>2</sup> )
ANSI A118.1 Requirements	The adhesive confirms to ANSI A118.1T	

### Coverage

A 20 kg bag covers approximately 5.5 to 6.0 m<sup>2</sup> (60 to 65 ft<sup>2</sup>) using a 6 mm x 6 mm square notched trowel for a bed of 3 mm.

Note: Coverage are approximate. For actual values, contact our marketing team.

## Technical Information

**Packaging & Shelf Life** Renacon 211 is available as 20 kg bags.  
Colour: Grey  
Has a shelf life of 12 months from the date of Manufacturing when stored in a dry, elevated area in the original unopened packaging

**Warning!** Keep out of reach of Children.  
Product for Professional Use  
Wear Suitable protective clothing, gloves while handling  
For Clarifications and Usage related queries, Contact our Technical Services

### Additional Information

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# Renacon



The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. All the above information must in every case be taken as merely indicative and subject to confirmation after long time application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

The applicable version of the Technical Data Sheet for this product can be downloaded from our websites. Previous versions of the Technical Data Sheets are rendered void with the issue of a new one. Date of issue: 06.04.2023/V1