

# TILE ADHESIVE PLATINUM

HIGH-PERFORMANCE CEMENTITIOUS POLYMER-MODIFIED DEFORMABLE ADHESIVE **TYPE IV 'T' S1 / C2TES1**  
FOR THIN TILES, LARGE TILES AND DEMANDING APPLICATIONS

## DESCRIPTION

**Tile Platinum** is a cement-based, flexible, high-performance adhesive for floor and wall tiles that features no vertical slip and extended open time for residential, industrial, and commercial wet and dry settings up to 15 mm in thickness. It is appropriate for adhering all varieties of ceramic, porcelain, marble, and natural stone tiles to any absorbent construction material substrates. Especially ideal for façade, heated flooring, swimming pools, and industrial floors. Indoor and outdoor use.

## USES

- Fixing of Ceramic tile, terracotta, earthenware, pavers, brick, vitrified tiles, glazed, porcelain, stoneware, terrazzo, unglazed, thin and large tiles, marble and natural stones.

## APPLICATION AREAS

- Floor and wall
- Balconies
- Bathroom
- Residential and commercial
- Heated floors
- Kitchen
- Leisure centres

## PRODUCT INFORMATION

<b>Chemical base</b>	Portland cement, polymers, selected aggregates and additives
<b>Packaging</b>	20 Kg
<b>Shelf life</b>	12 months from the date of manufacturing
<b>Storage conditions</b>	Product must be stored in original, unopened and undamaged sealed packaging in dry condition temperature between +5 °C to 35 °C
<b>Appearance</b>	Free flowing grey/white pow
<b>Standard compliance</b>	Type IV 'T' S1 (IS 15477:2019) & C2TES1 (EN 12004:2017)

\*Tensile adhesion strength test after freeze thaw cycles not concluded due to tropical climatic condition.

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## APPLICATION INFORMATION

Mixing ratio	Packing	Water: powder ratio by weight	Quantity of water per bag		
	20 Kg grey	0.26-0.30	5.20-6.00 L		
	20 Kg white	0.33-0.35	6.60-7.00 L		
<b>Fresh mortar density</b>	1.6 – 1.8 Kg/L				
<b>Consumption</b>	Consumption is dependent on the substrate, surface profile, roughness, application technique, tile type, tile size and trowel notch size. (As a guide for a single adhesive layer)				
<b>Size of tiles</b>	<b>Bed thickness</b>	<b>Dry Powder Consumption (Grey)</b>	<b>Dry Powder Consumption (White)</b>		
Small	3 mm	2.25 - 2.75 Kg/m <sup>2</sup>	2.25 - 2.75 Kg/m <sup>2</sup>		
Medium	4 mm	2.75 – 3.25 Kg/m <sup>2</sup>	2.75 – 3.25 Kg/m <sup>2</sup>		
Large	5 mm	3.50 – 4.00 Kg/m <sup>2</sup>	3.50 – 4.00 Kg/m <sup>2</sup>		
<b>Size of tiles</b>					
	<b>Pack</b>	<b>Area covered</b>			
	20 Kg	5 – 6 m <sup>2</sup> at 3 mm thickness			
<b>Layer thickness</b>	Min 3 mm – Max 12 mm				
<b>Ambient air temperature</b>	+5 °C - +45 °C				
<b>Substrate temperature</b>	+5 °C - +45 °C				
<b>Maturing time</b>	~5 minutes				
<b>Pot life</b>	~120 minutes (100 gm powders at +27 °C)				
<b>Open time</b>	25 – 30 minutes				
<b>Adjustability time</b>	35 – 40 minutes				
<b>Applied product ready for use</b>	<b>Use</b>	<b>Waiting time</b>			
	Grouting Floor/walkable	24 – 36 hours			
	Grouting walls	4 – 6 hours			
	Full traffic	~14 days			
	Water immersion	~21 days			

Values determined at the laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting times, lower temperatures increase them.

Protect from adverse weather conditions, such as extremely high or low (freezing) temperatures, rain, for at least 12-24 hours from application.

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## TECHNICAL INFORMATION

Requirements as per IS 15477:2019 -

TEST PARAMETERS	IS 15477:2019	RESULTS
Tensile Adhesion strength, after 28 days		
Dry condition	$\geq 1.5 \text{ N/mm}^2$	1.6 – 1.8 N/mm <sup>2</sup>
Wet condition	$\geq 1.0 \text{ N/mm}^2$	1.4 – 1.6 N/mm <sup>2</sup>
Shear adhesion strength		
Dry condition	$\geq 1.5 \text{ N/mm}^2$	1.6 – 1.8 N/mm <sup>2</sup>
Wet condition	$\geq 1.0 \text{ N/mm}^2$	1.4 – 1.6 N/mm <sup>2</sup>
Heat ageing	$\geq 1.0 \text{ N/mm}^2$	1.6 – 1.8 N/mm <sup>2</sup>
Transverse deformation (S1)	$\geq 2.5 \text{ mm, } <5 \text{ mm}$	$\leq 3.0 \text{ mm}$
Slip	$\leq 0.5 \text{ mm}$	$\leq 0.3 \text{ mm}$

Requirements as per EN 12004:2017 -

TEST PARAMETERS	EN 12004:2017	RESULTS
Tensile Adhesion strength, after 28 days		
Dry condition	$\geq 1.0 \text{ N/mm}^2$	1.6 – 1.8 N/mm <sup>2</sup>
Wet condition	$\geq 1.0 \text{ N/mm}^2$	1.4 – 1.6 N/mm <sup>2</sup>
Heat ageing	$\geq 1.0 \text{ N/mm}^2$	1.6 – 1.8 N/mm <sup>2</sup>
Extended open time, Tensile adhesion strength	$\geq 0.5 \text{ N/mm}^2 \text{ after not less than 30 minutes}$	1 – 1.2 N/mm <sup>2</sup>
Transverse deformation (S1)	$\geq 2.5 \text{ mm, } <5 \text{ mm}$	$\geq 3.0 \text{ mm}$
Slip	$\leq 0.5 \text{ mm}$	$\leq 0.3 \text{ mm}$

\*Values determined at the laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %, results may vary based on site conditions, contact Kansai Nerolac Paints technical team for assistance.

## APPLICATION PROCESS

### SUBSTRATE PREPARATION

- The substrate must be levelled, cured, undamaged, compact, rigid and free from any deleterious material.
- Dampen the dry surface with water and excess water should be washed off.
- New concrete substrate should be 28 days old before application which will reduce linear shrinkage from tile fixing surface.
- Smooth surfaces should be roughened lightly to improve adhesion.
- Expansion joints to be provided and filled with suitable sealant.
- For applications in hot climate or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to product application. Avoid any ponding/standing water on the surface. Surface must not be damp to touch.

- If waterproofing layer required, cement based, and acrylic based waterproofing products form Nerolac Perma range must be applied to the substrate before tiling.

### MIXING

- Pour the recommended amount of clean cold water into a suitable, clean mixing container.
- Slowly add Tile Gold powder to the water and then mix thoroughly using a low speed (<500 rpm) drill mixer until the material is fully mixed and lump free. Avoid entraining air into the mix by over mixing.
- Allow the product to mature 4-5 minutes before remixing for 30 seconds.
- The finished mix has a creamy consistency, uniformly coloured and is easy to apply and spread.

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## APPLICATION

- Tile Platinum is applied using a suitable notch trowel. Apply adhesive on a prepared fixing surface with trowel and comb to the required bed thickness. Coverage on the back of the tile should be 100%.
- Tiling must be carried out on freshly applied adhesive, exerting adequate pressure to ensure complete and uniform contact with the adhesive for optimum bond.
- Check the adhesive ribs periodically, if the skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position, checking periodically that good contact is maintained with the back of each tile and beat it using rubber mallet to imbed tile and just level.
- Adjust the tile if required.
- Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.
- After the required waiting time apply the appropriate grout into the tile joints.
- For tiles  $>900 \text{ cm}^2$  (30x30 cm), the double spreading (buttering technique) is always recommended.
- On cementitious substrates Tile Platinum Plus can be used for laying non-absorbent tiles on non-heated floors in outdoor and indoor applications up to 32 ft<sup>2</sup> (e.g. 4 ft x 8 ft). On walls indoor up to 8 ft height up to 32 ft<sup>2</sup> (e.g. 4 ft x 8 ft) and outdoor up to 20 ft height up to 8 ft<sup>2</sup> (e.g. 2 ft x 4 ft).

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## Disclaimer:

The product information and application details given by the company has been provided in good faith and is meant to serve only as a general guideline during usage. The performance claims made are based on the tests carried out under controlled conditions and our experience with the type of products, therefore actual performance will depend on local factors prevailing at that point of time. Users are advised to carry-out sample tests by taking trials to ensure the suitability of products for their requirement, prior to full-scale usage of our products. The Company is not liable for factors beyond its control such as application during adverse climatic conditions, use of improper application tools/techniques and surface preparation, any structural defects or the inferior quality of materials other than paints. The warranty/guarantee clauses shall accordingly be amended.