

TILE ADHESIVE CLASSIC

POLYMER MODIFIED CEMENTITIOUS TILE ADHESIVE **TYPE I 'T' / C1T** FOR INTERIOR FLOOR AND WALLS

DESCRIPTION

Tile Classic is a polymer modified grey cement-based tile adhesive for fixing small, medium sized ceramic tiles on floor/wall and vitrified tiles up to 4 square feet on the floor in residential context. Suitable for bonding absorbent ceramic and vitrified tiles to absorbent construction material substrates in indoor settings.

USES

- Bonding of ceramic tiles, terracotta tiles on floor and walls.
- Bonding of vitrified tiles on floor.

APPLICATION AREAS

- Indoor residential environment
- Domestic and commercial
- Dry and wet areas

SUBSTRATES

- Concrete
- Masonry
- Cement mortar beds
- Cement plaster
- Brick masonry
- Cement terrazzo

PRODUCT FEATURES

- Strong adhesion
- Can be used in wet areas
- Ready to use
- Self-curing
- No hollow sound
- Stronger adhesion than conventional cement-based mortar
- External tile and stone installations can be done using Nerolac Perma Tile Bond

PRODUCT INFORMATION

Chemical base	Portland cement, polymers and selected aggregates
Packaging	20 Kg & 40 Kg
Shelf life	12 months from the date of manufacturing
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry condition temperature between +5 °C to 35 °C
Appearance	Free flowing grey powder
Standard compliance	Type 1 'T' (IS 15477:2019) & C1T (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	0.22-0.25	4.4-5.0 L
	40 Kg	0.22-0.25	8.8-10 L
Fresh mortar density	1.7 – 1.9 Kg/L		
Consumption	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)		
	Size of tiles	Bed thickness	Consumption
	Small	3 mm	4 - 4.5 Kg/m ²
	Medium	4 mm	5.5 - 6 Kg/m ²
	Large	5 mm	7.5 - 8 Kg/m ²
	Coverage		
	Pack	Area covered	
	20 Kg	5 – 6 m ² at 3 mm thickness	
	40 Kg	10 – 12 m ² at 3 mm thickness	
Layer thickness	Min 3 mm – Max 12 mm		
Ambient air temperature	+5 °C - +45 °C		
Substrate temperature	+5 °C - +45 °C		
Maturing time	~3 minutes		
Pot life	~120 minutes (IS 15477:2019)		
Open time	10 – 15 minutes		
Adjustability time	15 – 20 minutes		
Applied product ready for use	Use	Waiting time	
	Grouting Floor/walkable	24 – 36 hours	
	Grouting walls	4 – 6 hours	
	Full traffic	~14 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	$\geq 0.5 \text{ N/mm}^2$	1.21 N/mm²
Wet condition	-	1.04 N/mm²
Shear adhesion strength		
Dry condition	$\geq 1 \text{ N/mm}^2$	1.14 N/mm²
Wet condition	-	1.18 N/mm²
Heat ageing	-	1.32 N/mm²
Slip resistance	$\leq 0.5 \text{ mm}$	$\leq 0.5 \text{ mm}$

Requirements as per EN 12004:2017 -

TEST PARAMETERS	EN 12004:2017	RESULTS
Tensile Adhesion strength		
Dry condition	C1 - $\geq 0.5 \text{ N/mm}^2$ C2 - $\geq 1.0 \text{ N/mm}^2$	1.06 N/mm²
Wet condition	C1 - $\geq 0.5 \text{ N/mm}^2$ C2 - $\geq 1.0 \text{ N/mm}^2$	0.86 N/mm²
Heat ageing	C1 - $\geq 0.5 \text{ N/mm}^2$ C2 - $\geq 1.0 \text{ N/mm}^2$	0.92 N/mm²
Tensile adhesion strength after freeze-thaw cycle	C1 - $\geq 0.5 \text{ N/mm}^2$ C2 - $\geq 1.0 \text{ N/mm}^2$	0.88 N/mm²
Extended open time, Tensile adhesion strength	$\geq 0.5 \text{ N/mm}^2$ after not less than 30 minutes	0.58 N/mm²
Slip	$\leq 0.5 \text{ mm}$	$\leq 0.4 \text{ mm}$

*Values determined at the laboratory conditions: 23 °C \pm 2 °C, R.H. 50 % \pm 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.
- 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 2-3 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 Classic 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.
- Tile Classic is ideal for laying ceramic and vitrified tiles up to 1 sq.ft. for indoor applications only. Tiles >1 sq.ft adhesive should be buttered on back of the tiles to ensure full adhesive contact.
- Use spacers while laying the tiles to provide tile grout joint between the tiles, remove spacers once adhesive sets firmly.

- Grout installation shall be commenced after minimum 24 hours of curing time.
- Grouting to be done using Nerolac Perma Tile R tone/K tone/R Poxy 2K/R Poxy 3K grouts. (Refer tile grout TDS for more information).

CLEANING OF THE TOOLS

- Clean all tools and equipment with water immediately after use. Hardened/cured material can only be removed mechanically.

PRECAUTIONS

- Always add powder to water, do not excess than the recommended.
- Never add cement and sand at site.
- Designer/applicator must use additional mechanical fastening system for extra security for more than 3-meter hight.
- Do not use adhesive to correct surface irregularities more than 15 mm.

EHS INFORMATION

Avoid inhalation, eyes and skin contact. In case of contact wash with water and seek medical attention

Refer MSDS for safety measures and precautions while handling Tile Classic.

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