

NEROLAC PERMA TILE ADHESIVE DIAMOND

HIGH PERFORMANCE POLYMER MODIFIED CEMENTITIOUS
TILE ADHESIVE FOR TILES AND SLABS

NEROLAC PERMA

SPECIFICATION

Conforms to IS 15477:2019 TYPE 3 'T'

DESCRIPTION

Nerolac Perma Tile Adhesive Diamond is polymer modified cement based tile adhesive for fixing ceramic, semi-vitreous, vitrified tiles and natural stones on variety of surfaces for both vertical and horizontal application. It can be used in dry as well as wet areas for indoor as well as outdoor application. It is also recommended for tile on tile application.

PRODUCT FEATURES



For internal,
external floor
and walls



High bond
strength



Easy to apply



Waterproof
tiled area



For tile, stone
and slabs



Extended
open time



PRIMARY USES

Tiles:

All type of ceramic tiles, terracotta tiles, brick, vitrified tiles, glass mosaic tiles, large format tiles, precast terrazzo marble and natural stones, low thickness slabs. (Size $\leq 600 \text{ mm} \times 600 \text{ mm}$) and (Maximum Height - 10 Ft)

Surface/Substrate:

Cement based screeds, cement based plasters/renders, concrete surface, bricks, AAC blocks, existing tiles and stones, waterproofing products, fixing slabs on facades, fixing panels made of polystyrene, polyurethane foam and other cementitious substrates.

Application areas:

Floor and walls for internal and external area, dry and wet areas like sauna, small swimming pools, fountains, terraces, balconies, domestic and commercial applications.

APPLICATION METHOD

Surface preparation:



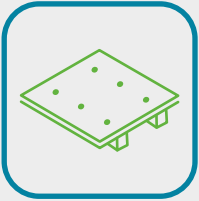
The surface must be level, cured, undamaged, compact, rigid and free from any deleterious materials.



Dampen the dry surface with water & excess water should be washed off.



New concrete slabs should be 28 days old before application which will reduce the shrinkage from tile fixing surface



Expansion joint should be provided and filled with suitable sealant.



Do not cover expansion joints with tile adhesive.

Application:

1. Mix 3.5 parts of Nerolac Perma Tile Adhesive Diamond with 1 part of water by volume or adjust the water as per desired consistency.
2. Mix with a suitable mechanical stirrer at slow speed until lump free homogeneous paste is obtained.
3. Leave the mixture for 5 minutes before use.
4. Apply adhesive to the substrate with the flat side of the trowel.
5. Comb on additional adhesive with the notched side.
6. Use proper size notched trowel to ensure full bedding of the tile.
7. Tile must be fixed within 30 minutes of adhesive being applied; time can be varying depending on porosity of the substrate and atmospheric conditions.
8. Check the adhesive ribs periodically and if the skin has formed, remove the dried adhesive and apply fresh adhesive.
9. Press the tiles firmly into position with slightly twisting action, checking periodically that good contact is maintained with the back of each tile and beat it using rubber mallet to imbed tile and adjust level.
10. Leave no voids behind tiles.
11. For large size tiles or irregular surfaces, adhesive should be buttered on the backs of the tiles to ensure full adhesive contact.
12. Use suitable support along with adhesive for fixing tiles on vertical surfaces.
13. Leave adequate joints between individual wall and floor tiles using tile spacers. The joint width shall be as per the recommendation of architect / engineer.
14. Clean off surplus adhesive from the tile face and between joints.
15. Clean tools and tile work with water while adhesive is fresh.

APPLICATION PROPERTIES

PROPERTIES	RESULTS
Form	Free flowing powder
Colour	Grey & White
Open time, minutes (IS 15477: 2019)	30
Adjustability, minutes (IS 15477: 2019)	30
Bulk density, Kg/m ³	1400
Pot life, minutes	120 @25°C
Setting/Trafficable/Grouting time, Hrs	24
Cleaning tools	With water immediately after use

PERFORMANCE PROPERTIES AS PER IS 15477:2019

TESTING PROPERTIES	REQUIREMENT	RESULTS
Tensile adhesion at dry condition	$\geq 1.5 \text{ N/mm}^2$	$\geq 1.5 \text{ N/mm}^2$
Tensile adhesion at wet condition	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.2 \text{ N/mm}^2$
Shear adhesion at dry condition	$\geq 1.5 \text{ N/mm}^2$	$\geq 1.5 \text{ N/mm}^2$
Shear adhesion at wet condition	$\geq 1 \text{ N/mm}^2$	$\geq 1.2 \text{ N/mm}^2$
Shear adhesion at heat ageing	$\geq 1 \text{ N/mm}^2$	$\geq 1.5 \text{ N/mm}^2$
Slip resistance	$\leq 0.5 \text{ mm}$	0.3-0.5

Note: Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions

PRECAUTIONS

- Always add powder to water, do not add excess than the recommended.
- Never add cement and sand at site.
- Do not use on wet substrate, it should be fully cured.
- Do not use adhesive to correct surface irregularities more than 15 mm.
- Protect from direct rainfall and foot traffic for at least 24 hours.
- Leave the gap between tiles and fill it with Nerolac Perma Tile Joint Filler.
- Designer/ applicator must evaluate the use of an additional mechanical fastening system for extra security for more than 3m height (such as steel hooks fastened to the substrate).
- For all exterior or large format tile installation, mix Nerolac Perma Tile Adhesive Diamond with Nerolac Perma Bond SBR 5-10% per bag.

COVERAGE

Approx. 6.25 - 7.5 m²/ 25 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch)

*Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

25 Kg and 50 kg bag

SHELF LIFE

Best before 12 months from the date of manufacture when kept in sealed pack and stored under proper conditions

EHS INFORMATION

Avoid inhalation, eye and skin contact. In case of contact wash with water and seek medical attention. Keep out of reach of children's.

DISCLAIMER

KANSAI NEROLAC PAINTS Ltd. (KNPL) warrants that all products are free from any defects of manufactured and comply with the specification given in their respective technical data sheet. No warranty can be given as to the results of use because conditions of use, such as site conditions, surface preparations, workmanship, weather, structural issues and other factors are beyond the control of KNPL. Purchaser agrees to seek the advice of qualified professionals to carry out tests and take trials to determine the suitability of products for their intended purpose prior to full scale usage of **KNPL** products and assumes all risks.

The company does not assume any liability for unsatisfactory results, arising from the use of our products. Purchaser's sole liability is limited to replacement of product or refund of the purchase price paid if any product proven defective. No other warranties express or implied, shall apply including any warranty of merchantability or fitness for particular purpose.

KNPL shall not be liable for any consequential damages arising from the use of our products for unsatisfactory results.

The information supplied in this data sheet is based on our experience through extensive research and is given in good faith in order to help prospective users. We reserve the right to update the information provided in our technical data sheet at any time without prior notice within the scope of technical progress or new developments.