

NSA DIAMOND-Gel

Non-Skid Tile & Stone Adhesive

DESCRIPTION

NSA Diamond-Gel is a multipurpose gel-adhesive which is highly polymer modified and very highly deformable, flexible, thixotropic and fluid. It is used for installation of large to very large format tiles. It offers exceptional sag and slump resistance. Its excellent workability, very high adhesion, and deformability makes it ideal for swimming pools, heavy traffic environment and facades. It can be used for any type of tiles and natural stone at any height in interior/exterior environment.

USES

- Tile claddings
- Terrace/Balconies
- Applicable of tiles/stone size 250mm X 400mm, 300mm X 300mm, 300mm X 400mm, 300mm X 600mm, 300mm X 900mm, 600mm X 600mm, 600mm X 1200mm, 1500mm X 750mm, 2400mm X 1200mm.
- Sand stone, khatu, Lapato, Quartz, Lime stones, Granite, Elevation stone, Rajasthan black stone & Marbles in internal & external applications.
- Porcelain tile
- Swimming pool
- Glass mosaic
- Fountains
- Vitrified tile
- Saunas
- Porous stones
- Spas

ADVANTAGES

- For floor, wall & ceiling - interior & exterior.
- Suitable for porous stones.
- Excellent bonding strength
- Specially formulated for swimming pool application.
- Prevents discolouration (in NSA Diamond-Gel White).
- Excellent tensile adhesion & shear adhesion strength- superior quality.
- For dry & wet application areas.
- Provides shock & load resistance.
- Excellent waterproofing properties.
- Provides vibration resistance.

SUBSTRATE

- RCC
- Cement sheet
- Plaster
- AAC blocks
- Tile on Tile
- Stone

SURFACE PREPARATION

The surface should be sound and thoroughly cleaned. Old surface should be free from wax, grease, dirt, flakes & loose particles.

MIXING

Add 25 to 30 % water per 20 kg bag, depending on the requirement.

COVERAGE

25 to 35 sq.ft. Per 20 KG with notch trowel for a bed thickness of 3 to 4 mm.

COMPLIANCE STANDARD

IS 15477:2019, EN 12004.

IS : 15477



CM/L - 7300131006



TECHNICAL INFORMATION

Properties	Standard test method	Results
Appearance	-	Grey/White colored powder
Grade	-	Type 4T S2 & C2TE S2*
Bulk density	-	1.33 to 1.38 gm/cc
Tensile adhesion @ 28 days	IS 15477:2019, EN 12004	>2.5 N/mm ² (dry)
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	>2.0 N/mm ² (dry)
Pot life	-	Approx. 2 hours [#]
Adjustability in minutes	IS 15477:2019, EN 12004	> 20
Slip resistance in mm	IS 15477:2019, EN 12004	< 0.5
Open time in minutes	IS 15477:2019, EN 12004	>20
Transverse deformation (S1)	IS 15477:2019, EN 12004	≥5 mm

*C2=Type adhesive | T=Thixotrophy | E= Open time | S2= Highly Deformable

[#]Although pot life is 2 hours, we recommend to use within 45 minutes for the best results.

METHOD OF APPLICATION

- Spread the adhesive to required bed thickness and comb with a notch trowel.
- Strictly apply the adhesive part which can be tiled within 10 to 15 minutes.
- Start placing the tiles on the surface. Tap the tiles properly to ensure complete coverage on the backside of tiles (for more details, visit application video on Cemseal's YouTube channel).

LIMITATIONS

Do not add additional water or gel after tile adhesive gets set. For ceiling application, contact technical department prior to application for approval.

CURING

Allow tiling to set for 24 hours and start filling joints next day with CEMSEAL WATERPROOF TILE GROUT or CEMSEAL EPOXY GROUT.

CLEANING

CEMSEAL NSA should be removed from tools & equipment immediately after use with clean water, only hardened material should be removed mechanically.

PRECAUTIONS

CEMSEAL NSA should be kept away from direct sunlight, humidity & dampness.

STORAGE LIFE & CONDITION

12 months on sealed pack at room temperature in dry area.

AVAILABLE PACKINGS

NSA DIAMOND-Gel is supplied in GREY/WHITE - 20 & 40 Kg bags.

HEALTH AND SAFETY

Contents Portland cement , silica sand & polymers. May irritate eyes & skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Do not consume in any way. Silica sand may cause serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas. Keep out of reach of children.

TECHNICAL INFORMATION & SERVICES

Further information and advice including practical demonstration are freely available from the technical service department of CEMSEAL INDUSTRIES LTD.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Cemseal representative.
- Cemseal reserves the right to have the true cause of any difficulty determined by accepted test methods.

Address

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