



## NSA<sup>®</sup> DIAMOND

(Moiser & Marble Fixing Adhesive (Type - III))

**NSA Diamond** is a white cement based material for fixing vitrified tiles and glass tiles over concrete or plaster surface. Vitrified tiles like marbo granite and glass mosaic tiles are non-porous, non-absorbing and heavier, and thus fixing them with conventional method is not desirable. NSA Diamond is ideal for fixing these with excellent bonding properties.

**Its available in both grey and white colour.**

**WHERE TO USE:** For fixing of glass & vitrified tiles on floor & walls.

### HOW TO USE:

**(A) PREPARATION:** The surface, which is to be tiled, should be pre-cleaned to remove all traces of oil, grease or other such contaminates which affects adhesion.

**(B) MIXING:** NSA Diamond powder is to be mixed with water at a volumetric ratio of 3:1. Take the required quantity of water in a clean ghamela and mix NSA Diamond powder gradually to achieve a paste. Allow the material to stand for 5-7 minutes for the polymer to get activated. Then remix and apply the material by a trowel or any such suitable tool.

**(C) APPLICATION:** Fixing of vitrified tiles like marbo granite can be done by two methods- buttering method and notched trowel method. The prepared paste is applied on the surface and combed evenly. The tiles should be pressed over the combed adhesive mortar. Glass mosaic tiles are fixed with utmost care. The prepared paste is to be spread over the surface at 1 or 2mm thickness evenly and glass mosaic tiles are pressed onto the applied mortar in patch manner. Glass mosaic tiles are tiny in size and fixed in a cluster manner to tackle about 10 sq.ft.

### ADVANTAGES:

- It has very good bonding and is also non-porous. Thus it is deal for vitrified tiles.
- It doesn't shrink as it is self-curing material which requires no care.
- It saves the aesthetic beauty of glass/vitrified tiles.
- It water proofs the tile surface.
- It water can be applied at a low thickness of 2mm with excellent bonding properties.
- It gives very good coverage.

**POT LIFE:** NSA Diamond mixed with water can be used for an hour at an ambient temperature of 30°C. However, factors like temperature, humidity and wind will affect the pot life.

**COVERAGE:** 20kg of NSA Diamond covers approximately 40-50 sq.ft. on smooth & even surface at 2-3mm thickness.

**STORAGE:** Keep the material in a cool and dry place. Since it is cement based material, NSA Diamond should be stored in airtight condition.

**PRECAUTION:** Fixing of glass tiles requires skilled or trained workers only.

SHELF LIFE:	PACKAGING:
For better result use within 12 months from the mfg date.	20kg bag.

### TECHNICAL SPECIFICATIONS:

TEST DESCRIPTION	RESULT	
Physical appearance	Free flowing powder	
Colour	Grey / White	
Mixing ratio (p.b.s. - part by weight)	1 p.b.w. water to 3 p.b.w. adhesive	
Bed thickness	2-6	Walls: Use thin bed trowel
		Floor: Use thin bed trowel
Pot life @ 27 ± 1°C	2 Hours	
Open time @ 27 ± 1°C	> 15 minutes	
Adjustability @ 27 ± 1°C	05 - 10 minutes	
Setting time	24 Hours	
Tensile adhesion Dry condition after 14 days	>0.75 N/mm <sup>2</sup>	
Shear adhesion Dry condition after 14 days	>8.00 kN	

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