weber
SAINT-GOBAIN

Adhesive for Natural stone flooring

weberset nova

CONFORMS TO CITE ISO 13007

EASY TO APPLY
LARGE SIZE TILE
TROWEL APPLICATION
2-15 mm
APPLICATION THICKNESS
20 KG = 7 m²
LOW CONSUMPTION
ECONOMIC
LOW VOC
FOR NATURAL STONES
POLYMER MODIFIED

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Product description

Weberset nova is a highly polymer modified thinset tile and stone adhesive, which is especially formulated for fixing low porosity vitrified tiles on walls and floor, and natural stones on floor. The adhesive can be used in Internal as well as external conditions, in dry as well as wet areas. Please refer tile/substrate application table for more details.

Features & benefits

- High Bond strength.
- Free flowing product, makes it easier to mix and apply-Easy to use.
- Useful for bed thickness of 3-12 mm. May go upto 15 mm in limited extent.
- Thixotropic formula - no sag, for easy application on wall.
- Low VOC - For healthy living.
- For installation of vitrified tiles on wall and floor and Natural stones on floor.
- Suitable for internal and exterior use.
- Can be used for new construction, as well as for renovation over existing floors/facades.
- Self-curing properties, which allows for no-hassle application, with minimum labor.
- No hacking of substrate required to achieve the required bonding.

Area of application

Refer Tile / Substrate application table for details.

Compliance / Standards

Specially formulated as per the requirements **C** (Cementatious) **1** (standard) **T** (Slip resistant) and **E** (extended open time) of **ISO 13007 and EN 12004**. Also complies to **IS 15477:2004 (Type 2)** and **ANSI A118.1**

Limitations

- Do not use on wet screed. Surface must be fully cured.
- Do not use on gypsum plaster or boards, fibre cement boards, or other drywall partitions.
- Do not use for Installing Glass mosaic, glass tiles, or metal tiles. Use only Weberset glass mosaic for fixing glass mosaics, and only Weber bond poxy, for fixing glass and metal tiles.
- Do not use for wooden flooring, or for insulating and soundproofing panels.
- Do not use on waterproofing coat, except if done with Weber SBR or Weber crete.
- Do not use for fixing artificial stone or impregnated stone. Use Weberset ultra for the same.

Method of application

Preparing the substrate

- Clean the substrate of oil stains and bond inhibiting compounds, dirt, dust and laitance, if any, using high pressure water jet or any other suitable method.
- Ensure that the substrate is flat, stable, well adhered and has a normal absorption.
- Concrete screeds, renders and block work should be cured sufficiently to avoid with shrinkage cracks.
- Correct the local undulation/damage on the substrate at least 48 hours before the application of Weberset nova.
- Saturate the surface well and remove excess water before application of Weberset nova.

NOTE :

- *In case of higher undulation, a neat coat of Weber SBR LitX to be applied on the substrate, followed by application of latex modified plaster, to smoothen the surface. (Refer technical datasheet of Weber SBR LitX for further details)*
- *In case of oil stains use of surfactants may be necessary, followed by proper cleaning with water, to avoid debonding of tiles.*
- *Leave expansion joints of atleast 10mm thickness,*

every 20 feet in the substrate. Do not cover expansion joints with adhesive. Ensure the expansion joints are filled only with a suitable flexible sealant, post tiling.

Preparing the mix

- Gradually add Weberset nova (3 parts for white and 2.5 parts for grey) to 1 part of clean water (by volume) and mix it to a lump free, smooth, workable paste using a suitable stirrer / low speed drill mix / or any other appropriate tool.
- After mixing, allow the mixture to stand for 2 minutes for it to mature.

NOTE :

- *Do not attempt to extend the pot life by adding more water to the mix.*
- *Do not add any additional substance, like cement, sand etc. to the mix. These may adversely, effect the performance of the product.*

Applying the mix

- Apply the adhesive onto the substrate covering up to 1 m^2 at a time (or no more than can be tiled within 30 minutes). Unfavorable weather conditions (strong sun, dry wind, high temperatures, etc.) or a highly absorbent substrate can reduce the open time, even to just a few minutes. It is therefore necessary that careful checks be made to ensure that a skin does not form on the surface of the spread adhesive. Incase skin formation is observed, re-freshen the adhesive by re-spreading the adhesive with a notched trowel
- It is not recommended to wet the adhesive with water once a skin has formed, because instead of dissolving the skin, the water will form an anti-adhesive film.
- Apply Weberset nova over the surface using the straight edge of the notched trowel and then comb the applied adhesive using the notched side of the trowel to achieve the desired thickness.
- Double buttering is recommended for heavier stones.
- If the adhesive is buttered to the tile, then ensure proper coverage of the tile surface to evade voids.
- Ensure adequate gap is kept between subsequent stones/tiles to accommodate for thermal expansion and contraction.

NOTE: The size of the notch trowel and the angle of application will determine the bed thickness as per the following formula:

$$\text{Bed Thickness} = \frac{N_W \times N_H \times \sin\theta}{(N_G + N_W)}$$

Where :
N_W is the width of the Notch
N_G is the Gap in between the notches,
N_H is the Height of the notch, and
θ is the angle of application

Installing the tiles

- Clean the stone/tile with water before installation
- Bed the tiles firmly into the adhesive with a slight sliding and/or twisting action/shear, to ensure a good and uniform contact.
- It is good practice to lift an occasional tile after fixing, to verify that the required contact is being achieved.
- In wet areas, external areas and all floors, the final adhesive bed should be free from voids.
- If necessary, tiles should be adjusted, within 30 minutes of installation.
- Carefully clean off any excess adhesive from the tiles and joints with a damp sponge or cloth before it sets. Leave for at least 24 hours before grouting.
- More time may be required before grouting when tiling onto impervious or sealed surfaces or higher bed thickness.

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Tile/Substrate application table

SUBSTRATE TYPE	SUBSTRATES \ TILE	Ceramic tiles	Terracotta	ceramic mosaic	Quarry tile	Vitrified tiles	Marble Mosaic	Natural Stone	Porcelain Tiles	Pavers	Brick	Precast terazzo
Cementitious	Cement-based screeds and mortars	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	cement-based plasters/renders	✓	✓	✓	✓	✓	✓	×	✓	×	×	×
	Existing floor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Concrete Masonry	✓	✓	✓	✓	✓	✓	×	✓	×	×	×
	Cement Terrazzo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Blocks	✓	✓	✓	✓	✓	✓	×	✓	×	×	×
	Self Levelling Screeds	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Others	Brick Masonry	✓	✓	✓	✓	✓	✓	×	✓	×	×	×
Tiles	Ceramic tile	✓	✓	Δ	✓	◊	◊Δ	◊	◊	◊	◊	◊
	Vitrified tile	✓	×	Δ◊	×	◊	◊Δ	◊	◊	◊	◊	◊
	Stone	×	×	Δ◊	×	◊	◊Δ	◊	◊	◊	◊	◊

◊ Floor only Δ Without plastic mesh

All above indication is for regular sized tiles and stones. Please contact Weber Tech support for large format tiles and stones.

Note to specifier

- Use Weber primer 401, corner treatment with Stickon tape and two component Weber Waterseal 321 for comprehensive waterproofing, before application of Weberset firm, where required.
- In case of highly dusty or porous substrate, apply 1 coat of Weber primer 401.
- To prevent any discoloration of natural stone, treat with under-tile impregnator Weber Stone Protect
- To get excellent stain resistance on stone, use hydrophobic and oliophobic impregnator Weber Stoneseal
- To match joint with the color of tile/stone, use Weberjoint poxy along with Weberjoint poxyfill, available in more than 40 colors.
- To get invisible joints between stones, fill with specially formulated Weber Pearl Armor™ Speciality grout.
- To get high aesthetic appeal, fill joints with Weber Knight Armor™ speciality grout.

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Grouting and sealing

Joints to be grouted after 24 hours of application of Weberset nova using Weberjoint poxy. It can also be grouted with Weber.color dewdrop along with Weber groutadd. In case of low humidity, high temperature, and even application of 3mm bed thickness, can also be grouted within 4-8 hours.

Ready for use

Surfaces are ready for use, after 14 days, post completion of grouting.

Product details

Physical state	Powder	
Color	White	Grey
Bulk Density	1.40 - 1.50 gm/cc	1.45 - 1.55 gm/cc
Mix Density	1.7 – 1.8 gm/cc	1.8 - 1.9 gm/cc
Mixing Ratio (powder to water)	3 : 1 by volume	2.5 : 1 by volume
Pot life	3 hours	
Open time	30 mins	
Adjustability time	30 mins	
Ready for grouting on walls	24 hours	
Ready for grouting on floor	24 hours	
Set to light foot traffic	24 hours	
Ready for use	14 days	

Coverage

Approximately 1.4 - 1.55 Kg/sq.m per mm of thickness

NOTE: Ensure all surfaces are clean, smooth and plum, levelled, free of defects, and without undulations for maximum coverage.

Packaging

20 Kg double layered BOPP bags and 40 Kg liner polypropylene bags for maximum moisture protection, and enhanced shelf life.

Shelf life

12 months from month and year of manufacturing, for unopened bags, stored in dry condition.

Condition of sale

Sold Subject to the company's condition of sale which are available on request.

Caution

There may be irritation caused in eyes and skin in case of contact for a very long time. Please seek medical help if the problem persists for a long time. The product is recommended to be applied with gloves.

Disclaimer

The user should determine the usability of the product for its intended use. Our products are manufactured under the Saint-Gobain quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation procedures, the company will not be responsible under any circumstances for any loss, damage or liability from incorrect usage.

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Technical standards and performance

ISO 13007 and EN 12004

Classification	Property	Requirement	Weberset nova
C1 – Normal cementitious adhesives (fundamental characteristics)	Tensile adhesion strength	≥ 0.5 N/mm²	0.97 N/mm²
	Tensile adhesion strength after **water immersion**	≥ 0.5 N/mm²	0.72 N/mm²
	Tensile adhesion strength after **heat ageing**	≥ 0.5 N/mm²	0.67 N/mm²
	Tensile adhesion strength after **freeze-thaw cycle**	≥ 0.5 N/mm²	N/A
T - Slip resistance	Slip	≥ 0.5 mm	No Slip
E – Extended open time	Extended open time: tensile adhesion strength	≥ 0.5 N/mm² after not less than 30 min	0.61 N/mm²

ANSI A118.1

Condition	Property	Requirement	Weberset nova
Extended Open Time (E)*	20 minutes at 28 days	≥ 75 psi (0.52 N/mm²)	0.67 N/mm²
	30 minutes at 28 days	≥ 75 psi (0.52 N/mm²)	0.63 N/mm²
Glazed Tile Shear Strength	7 day dry	≥ 200 psi (1.38 N/mm²)	1.89 N/mm²
	7 day water immersion	≥ 150 psi (1.03 N/mm²)	1.46 N/mm²
Impervious Mosaic (Porcelain) Tile Shear Strength	1 day	≥ 50 psi (0.34 N/mm²)	0.42 N/mm²
	7 day dry	≥ 150 psi (1.03 N/mm²)	1.21 N/mm²
	28 day dry	≥ 150 psi (1.03 N/mm²)	1.74 N/mm²
	7 day water immersion	≥ 100 psi (0.69 N/mm²)	1.18 N/mm²
	12 weeks	≥ 150 psi (1.03 N/mm²)	1.78 N/mm²

IS 15477 : 2004

Type 2 Adhesive: Based on fixing tiles of apparent porosity less than or equal to 3 percent, (108 mm x 108 mm x 6.5 mm)	Shear adhesion strength : dry condition 24 hrs	4KN (0.34 N/mm²)	4.87 KN
	Shear adhesion strength : dry condition 14 days	10KN (0.86 N/mm²)	11.1 KN
	Shear adhesion strength : heat aging conditions	5 KN (0.43 N/mm²)	5.57 KN
	Shear adhesion strength : wet conditions	5 KN (0.43 N/mm²)	5.45 KN

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