

## Technical Data Sheet

Ref.: C&L-SG-12- 010520-02

<p><b>In Compliance With</b> EN norms – CG</p>	<p>Walnut Connect &amp; Lock Stucco grout is a single component, eco-friendly, high polymer modified, water &amp; abrasion resistance grout based on high quality mineral for filling the joints of tiles &amp; stone up to 12mm. Suitable for internal &amp; external areas.</p>
<p><b>Main application</b> Polymer stucco grouts for filling joints between tiles &amp; stone up to 12 mm.</p>	

### Technical advantage of Stucco Grout over other cement-based grouts

- First stucco finish grout of high quality with high content of calcium carbonates.
- Best to use for industrial grade tiles, paver tiles with wider joints.
- Guaranteed for quick filling of joint up to 12 mm. on floor & on wall.
- Suitable for filling joints in all kind of ceramic & vitrified tiles & stone including mosaic.
- Best of workability, cleaning and smooth glossy finish.
- Very high quality of Iron oxide and colour stability.
- High compressive, abrasion & water resistance among polymer class of grout.
- No water curing requires.
- Suitable for external & internal.
- Available in wide range of 12 colours or more.
- High coverages with best of performance even in fine joints.
- Economic & best value using Walnut Stucco as a tile grout.
- Very low VOC and suitable for green building credit points.

### Suitable areas

- External and internal wall & floor.
- Residential, commercial & industrial buildings.
- Public infrastructure projects, parking area.

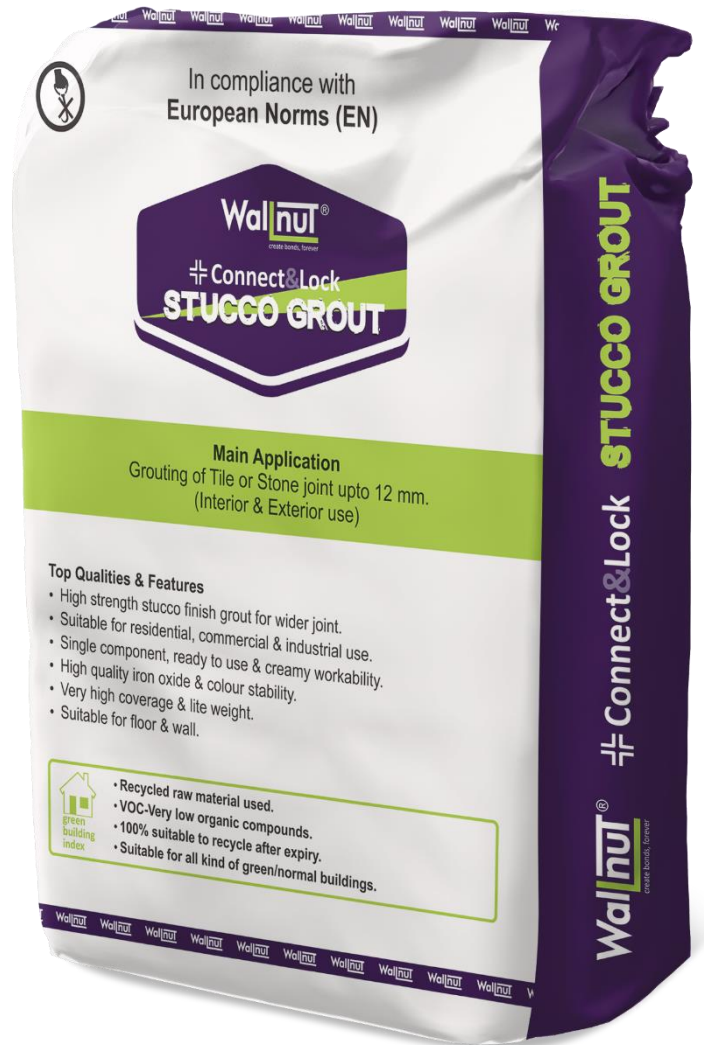
### Suitable materials for grouting

- All type & size of ceramic & vitrified tiles.
- All type & size of ceramic & glass mosaic.
- All type of natural and recomposed stone.
- Large format tiles slab of all type.

### Product not to be used

- Filling of joints where tiles are made of metal & wood.
- Tiles or stone which are absorbent and colour pigment can dis-colour the surface. (Use Connect & Lock Epoxy Grout).
- More than 12 mm. of joints. (Use Connect & Lock Epoxy Grout).
- As waterproofing & chemical resistance grout. (Use Connect & Lock Epoxy Grout).
- In expansion & connection joints.
- Joints with standing water and rising moisture.

## How to Use



### Important tools for application:

- Electric low speed mixing stirrer.
- Vacuum cleaner / blower to remove the dust from joint.
- Walnut rubber grout float.
- Cleaning sponge of good quality.
- Other mixing & finishing tools such as mixing trowel, bucket, brush, broom, measuring tape etc.

### Cleaning of tools:

- While still the material is fresh, all the tools can be cleaned with normal water. Once material is hardened, the material can be removed only by mechanical means.

### Surface Preparation:

- First check that tiles or stone are fixed properly and are not sounding hollow. In case sounding hollow, first repair or replace the area.
- Ensure that joints are clean and free from all foreign material such as oil, grease, dust etc. In case dust or cement particles are stuck inside joint, use vacuum cleaner or blower to remove the same. Grout remover tool also can be used in case old grout to be removed.
- In case working on external façade or on floor joints, avoid applying grout on hot surface. First, let cool the surface of tiles or stone and don't work under direct sun. Hot surface may compromise final performance grout.

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- In case of high absorbent tiles or stone surfaces, before starting the application, first apply the grout colour in small test patch area. In case dis-coloration of surface occurs, then consult Walnut technical representative and stop the application.
- In case tiles or stone are rustic in nature and having un-even surfaces, it is possible that grout residual will remain on the surface while final cleaning. It is better to avoid applying grout on entire surface area. In this case, edges of tiles or stone can be masked by applying suitable masking tape and can be removed post cleaning of grouts.

### Mixing:

- Mix Lite Joint Grout With approx. 2.75 L / 10 Kg. of clean water. Use slow speed electric stirrer for mixing to have desired results. Manual mixing can compromise performance of grout and colour can be uneven on final surface.
- Adjust the water quantity as per ambient temperature and dryness of surface and joints. The final mix must be workable paste.

### How to apply:

- Spread the grout evenly on the surface of tiles or stone to cover the area.
- Once grout is spread, fill the joint tightly using rubber grout float. Keep the rubber float diagonally to the joint and apply 45-degree angle to have perfect filling.
- Once all the joints are filled properly, remove excess grout if any from the surface of tiles or stone.
- Leave the grout for surface touch dry. Once the top surface of grout becomes semi-dry, apply all over the surface cleaning sponge using very less water. Use the water only enough to wet the surface area. Apply the sponge in circular motion all over the joints. Finish the joint smoothly and evenly. (In case excess water is used, it is possible that pigments from top surface are washed away and final colour of grout may be affected).

## Product & Working Data

Product appearance	: Fine powder available in 12 colours.
Packing	: 10 Kg. moisture proof bag.
Shelf life	: 12 months from the date of manufacturing.
Water ratio	: Approx. 2.75 Lt. for 10 kg. bag.
Pot life	: > 60 Minutes
Width of Joint	: up to 12 mm.
Initial setting	: 6 to 8 hours.
Final setting	: 24 hours.
Grouting when fixed with adhesive	: after 24 hours
Grouting when fixed with wet mortar	: after 2 to 3 weeks.
Foot traffic and lite uses	: After 24 hours.
Full strength of grout	: At 28 days.
Coverage	: Based on joint width & depth and tile size. Refer the coverage chart.
Application temperature	: + 5° C. to + 35° C.

(Data @ 23° C. & 50% humidity)

## Technical Performances

### In compliance with European Norms 13888: EN CG standard for polymer grouts

Compressive strength	: $\geq 28$ N / mm <sup>2</sup>	: As per EN 12808-3
Flexural strength	: $\geq 3.6$ N / mm <sup>2</sup>	: As per EN 12808-3
Abrasion resistance	: 1850 mm <sup>3</sup>	: As per EN 12808-2

(Final results @ 28 days, 23° C. & 50% humidity)

- Final resistance to temperature after 28 days or full cure: - 30 to + 80° C.
- The final results may vary based on temperature and humidity.

## Coverage Chart

Coverage's of Connect & Lock Stucco Grout - Approx. sq. ft. area covered in 10 kg. pack.								
Tile size in mm. (W x L x T)	Joint width in mm							
	1	2	3	4	5	6	8	10
20 x 20 x 3 (Glass Mosaic)	200	100						
50*50*3 (glass mosaics)	500	250						
100*100*3	1000	500	333	250	200	166	125	100
100*150*3	1200	600	400	300	240	200	150	120
200*300*4	1800	900	600	450	360	300	225	180
300*300*5	1800	900	600	450	360	300	225	180
300*450*6	1800	900	600	450	360	300	225	180
450*450*8	1690	845	563	422	338	281	211	169
600*450*8	1930	965	643	482	386	321	241	193
600*600*8	2250	1125	750	562	450	375	281	225
900*900*11	2450	1225	816	612	490	408	306	245
1200*1200*9	4000	2000	1333	1000	800	666	500	400
1200*2400*9	5340	2670	1780	1335	1069	890	667	534

## Important instructions

- Once bags are open, entire material must be consumed within 24 hours. Store the bags in safe environment.
- In case of very weak or old joints, please ensure that proper strength or correction are done before use of grouts.
- If temperature is more than 35° C., than avoid using the products under direct sun.
- In case temperature is cold and below 5° C., the initial and final setting may affect.
- In case the performance of Walnut products are not as per technical data mentioned, please call Walnut technical helpline.

## Walnut Green Building Index

Walnut range of products are most eco-friendly and suitable to use in all kind of buildings including certified green. Apart from using best of international raw material for best performance, Walnut procure the major raw material locally to safeguard environment.



- Recycled raw material used.
- VOC (Very low Organic Compounds).
- 100% suitable to recycle after expiry.
- Suitable for all kind of green and normal buildings.

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## Walnut Quality & Safety Assurance

Products supplied are safe to use by any worker at site. However proper tools and safety measures must be in place for prolong working. The gloves, safety glasses and other protection measure must be followed as per local regulation.



## Declaration

All the above information and results are provided based on Walnut internal quality test. Customer must check before using the product about performance and final expected results. Walnut cannot be held responsible for any damage of whatsoever nature at site.

## Technical Help

**Walnut Building Solutions India Private Limited | CIN : U36999MH2017PTC289638**

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