

Technical Data Sheet

Ref.: C&L-LGt-11- 010921-04

In Compliance With EN norms – CG	Walnut Lite grout is a single component, eco-friendly, polymer modified, water & abrasion resistance very fine grout based on high quality mineral for filling the joints of tiles & stone up to 3mm. Suitable for internal & external areas.
Main application Polymer grouts for filling of joints in tiles, stone & mosaic up to 3mm.	

Technical advantage of Lite Grout over other cement-based grouts

- First extra fine grout (< 50 micron) with high quality of calcium carbonates inside.
- Guaranteed for quick filling of joint up to 3 mm. on floor & on wall.
- Suitable for filling joints in all kind of ceramic & vitrified tiles, all kind of stone & mosaic.
- Best of workability, cleaning and smooth glossy finish.
- Very high quality of Iron Oxide and colour stability.
- High compressive, abrasion & water resistance when used alongwith C&L Grout Admix.
- Best for lite uses and for renovation work.
- No water curing requires.
- Suitable for external & internal.
- High coverages with best of performance even in very fine joints.
- Economic & best value using as tile grout.
- Very low VOC and suitable for green building credit points.

Suitable areas

- Internal & external wall & floor.
- Residential & commercial buildings.
- Public infrastructure projects.

Suitable materials for grouting

- All type & size of ceramic & vitrified tiles.
- All type & size of ceramic & glass mosaic.
- All kind of natural and recomposed stone.
- Large format tiles of all type including vitrified thin slab of less than 5mm. thickness

Product not to be used

- Between the joints where tiles are made of metal or wood.
- Tiles or stone which are absorbent and colour pigment can dis-colour the surface. (Test small area first).
- For more than 3 mm. of joints use C&L Stucco Grout.
- As waterproofing & chemical resistance grout, use C&L 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.

- 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 Grout 1 kg. with approx. 400 ML. of C&L Grout Admix or clean water. Use slow speed electric stirrer for mixing to have desire results. Manual mixing can compromise performance of grout and colour can be uneven on final surface.
- Adjust the Admix or 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 become 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	: Very fine powder available in 23 colours.
Packing	: 0.5 kg, 1 kg & 10 Kg. moisture proof bag.
Shelf life	: 12 months from the date of manufacturing.
Water or C&L Grout Admix ratio	: Approx. 400 ML. per kg. of grout.
Pot life	: > 60 Minutes
Width of Joint	: up to 3 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 & size of tiles. Refer the coverage chart.
Application temperature	: + 5° C. to + 35° C.

(Data @ 23° C. & 50% humidity)

Technical Performances

Test data when used alongwith C&L Grout Admix:

Compressive strength	: ≥ 15 N / mm ²	: As per EN 12808-3
Flexural strength	: ≥ 3.5 N / mm ²	: As per EN 12808-3
Abrasion resistance	: ≤ 1000 mm ³	: As per EN 12808-2
Water Absorption after 4 hours.	: ≤ 5 Grm.	: As per EN 12808-5

Final Conformity (EN Norms 13888) : EN CG 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

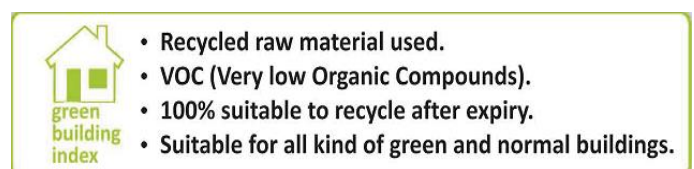
Coverage's of Connect & Lock Lite Grout - Approx. sq.ft. area covered in one kg. of grout.								
Tile size in mm. (W x L x T)	Joint width in mm							
	1	2	3	4	5	6	8	10
20 x 20 x 3 (Glass Mosaic)	19	9.5						
50*50*3 (glass mosaics)	48	24						
100*100*3	97	48	32	24	19	16	12	9
100*150*3	117	58	39	29	23	19	14	11
200*300*4	175	87	58	43	35	29	21	17
300*300*5	175	87	58	43	35	29	21	17
300*450*6	175	87	58	43	35	29	21	17
450*450*8	164	82	54	41	32	27	21	16
600*450*8	187	93	62	46	37	31	23	18
600*600*8	219	109	73	54	43	36	27	22
900*900*11	238	119	79	59	47	39	29	24
1200*1200*9	389	199	129	97	77	64	48	38
1200*2400*9	519	259	179	129	103	86	64	51

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.



Technical Data Sheet

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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