

Technical Data Sheet

Ref.: C&L-Lr-Gt-24- 010423-02

<p>In Compliance with EN norms - RG (Reactive Grouts)</p> <p>Main application Two component Epoxy Grout in variety of jewels to provide glittering effects between tiles & stone joints upto 10 mm on floor and on wall.</p>	<p>Walnut Connect & Lock advance technology Luster Grout is consisting of high-quality transparent glass beads, eco-friendly resin & hardener & extra shiny premium hexagonal glitter beads. The grout provides excellent workability and ease of work for DIY job and high-quality shining in gold, silver & copper shades between tiles & stone joint. Connect & Lock Luster Grout doesn't allow water to go through and can be used for filling the tile & stone joints up to 10 mm on floor & on wall. Best for interior use. External under shade.</p>
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Technical advantage of Connect & Lock Luster Grout

- Advance technology ready to use epoxy base crystal grout in jewels form, which requires very short time for mixing and application.
- User friendly 2 component formulation and cleaning can be done in short time with water only.
- High quality shiny jewels joints for decorative & aesthetic appeal.
- Weathering free and long-lasting metallic effect.
- Fully flush joints equal to the surface of tiles or stone.
- Highly suitable for all type of ceramic, vitrified, marble granite & glass mosaic surfaces.
- Saves time and labor significantly compare to other 3 component grouts.
- Highly thixotropic in nature and does not sag from the joint upto 10 mm. or even more.
- Low VOC (Volatile Organic Compound) and at par with international norms.
- Cleaning and final finish possible with only normal water.
- Hygiene, antibacterial & does not allow fungal growth by itself.
- High quality extra shiny polyester glitter in Gold, Silver & Copper.
- It is able to lock grout colors between joints permanently.
- Almost waterproof by its nature.
- Very high compressive strength and no debonding from joint.
- Durable and long-lasting.

Suitable areas

- Restaurants, Discotheque, Bar, Jewellery & Fashion showrooms.
- Places of worship (Temple, Mosque, Church etc.).
- High quality interior walls in glass mosaic or similar glossy material.
- Five Star hotels, entrance lobby, exhibition areas.
- Multiplexes, cinemas, art gallery, painting areas.

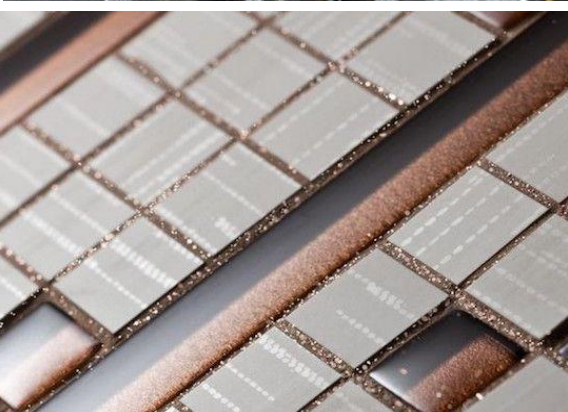
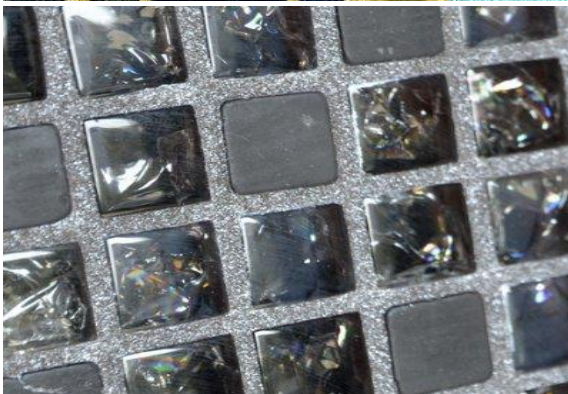
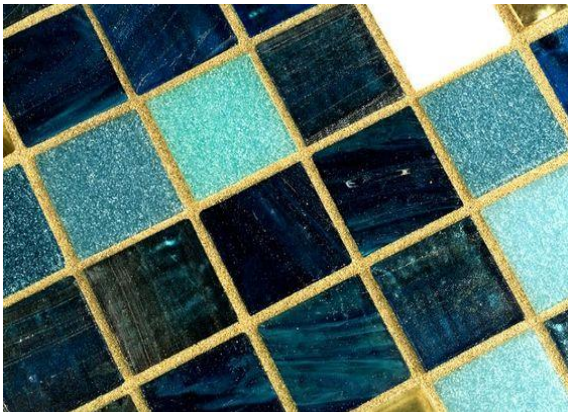
Suitable materials for grouting

- All type & size of glazed, ceramic & vitrified tiles.
- All type & size of natural and engineered stone.
- All type & size of ceramic & glass mosaic.
- Large format tiles of all type including low thickness slabs.
- Tiles & mosaic in metal form.

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Product not to be used

- External area under direct sunlight.
- Tiles or stone surfaces which are highly absorbent and may allow the resin or color to penetrate. (Test small area first or consult Walnut technical representative).
- In expansion and connection joints. Also joints which are subjected to extreme movements.
- Not to be used as substitute for sealants.
- In Joints with standing water and continuous rising moisture.



How to Use

Important tools for application:

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

Cleaning of tools:

While still the material is fresh, all the tools can be cleaned with normal water or soap / detergent. In case material is hardened, it 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 surface of tiles or stone are absorbent, then before starting the application, first apply the grout in small test patch area. In case dis-coloration of surface, apply first Zeoseal Porous Sealer or consult Walnut technical representative.
- In case tiles or stone are rustic in nature and having un-even surfaces, it is possible that grout residue may remain on the surface and difficult to fully clean. In this case, better not to apply grout on entire surface area. Also, if needed, edges of tiles or stone can be masked by applying suitable masking tape and can be removed post cleaning of grouts.

Mixing Ratio: Part A-Hardener: Part B-Color resin paste: (1 : 15)

- Mix part A and Part B full quantity in any plastic bucket by using slow speed electric stirrer. Mix until smooth & uniform paste is obtained for application.
- In case part quantity of grout is mixed, it is advisable to use strictly the correct ratio of Part A-hardener & Part B-resin color paste (1:15). For taking correct ratio of hardener, a measurement jar or hardener bottle cap can be used. (In case Part A mixing ratio are not correct, the final result may vary and grout performance can be compromised.)
- Use the mixed material within 15 to 45 minutes (Depends on ambient temperature) before it starts setting in bucket.

How to apply & cleaning:

- Before applying the grout on overall surface of tiles or stone, test the small area for any discoloration due to absorbency in tiles or stone surface.
- In case tiles or stone surface is rough or un-even, it is advisable to apply the grout only in the joints and not on the entire surface of tiles or stone to avoid cleaning issue. (A good masking tape also can be used if needed on the edges.)
- Spread the grout evenly on the surface of tiles or stone to cover the area.
- Once grout is spread, fill the joint completely 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.
- To achieve flush joint, leave the grout approx. 30 to 45 minutes (Depends on temperature) in the joints. (Immediate cleaning of grout is possible, but it may lead to un-even grout surface finish).
- Pour clean water over the tile or stone surface enough to wet the area and start cleaning the grout with medium density sponge in circular motion all over the joints. Finish the joint smoothly and evenly. (Change the water once or twice to have proper cleaning of surface). The sponge cleaning will ensure the grout leaves a smooth and glossy finish at the joints.
- Leave the grout for 24 hrs. to dry and fully set. Protect the area for any possible stain on fresh grout due to movement or dust.
- After 24 hrs. the tile surface can be cleaned with soap water to remove any haze or traces of color remained at the top.

Product & Working Data

- Product appearance : Part A hardener in lite yellow form. Part B paste in gold, silver or in copper shade.
- Packing : 1 & 4 kg mono-pack consist of Part A-hardener & Part B - resin paste.
- Shelf life : 24 months from the date of manufacturing.
- Pot life : 35 minutes Approx.
- Mixing ratio : Ideally full quantity to be mixed, in case part quantity to be mixed - ratio: 1: 15 (hardener: resin color paste) to be maintained.
- Cleaning time of grout : within 15 to 30 minute depends on finishing needed.
- Specific weight of the mix : 1.45 g/cc
- Width of joint : upto 10 mm.
- Grouting when fixed with adhesive : After 24 hours
- Grouting when fixed with wet mortar : After 14 days
- Foot traffic and lite uses : After 24 hours
- Full strength of grout : At 7 days.
- Coverage : It is based on tile size, joint width & depth. Refer the coverage chart.
- Application temperature : + 5° C. to + 35° C.

(Data @ 23° C. & 50% humidity)

Technical Performances

In compliance with EN RG (Reactive grouts)

Compressive strength	: 54 MPa	: as per EN 13888
Abrasion resistance	: 162 mm ³	: as per EN 12808-2
Water absorption after 240 min.	: 0.03g	: as per EN 12808-5
Fungal contamination	: NIL	
Bacterial contamination	: NIL	
Porcelain tiles/concrete tensile strength ≥	: 3 MPa	: as per EN 1348
Working temperature	: from - 40° C to +110 °C	

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

- Final resistance to temperature after 7 days or full cure: - 30 to + 80° C.
- The final results may vary based on temperature and humidity.

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Technical Data Sheet

Coverage Chart

Coverage's of Connect & Lock Epoxy Grout - Approx. sq. ft. area covered in 1 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)	23	11						
50*50*3 (glass mosaics)	58	30						
100*100*3	115	58	40	30	23	20	14	10
100*150*3	140	70	47	35	28	23	17	14
200*300*4	210	105	70	50	40	35	25	20
300*300*5	210	105	70	50	40	35	25	20
300*450*6	210	105	70	50	40	35	25	20
450*450*8	200	100	65	50	40	33	25	20
600*450*8	225	113	75	55	45	37	28	22
600*600*8	265	130	90	65	50	45	33	25
900*900*11	290	145	95	70	55	47	35	28
1200*1200*9	470	235	155	115	95	78	58	45
1200*2400*9	625	315	210	155	125	105	75	60

- Actual coverage depends on the grout application and actual depth of grout joint.
- Mixing and application waste reduces the actual coverage of the grout.

STAIN RESISTANCE CHART

Stain material	Concentration	Rating after Immediate cleaning *	Rating after 24 hrs. cleaning*
Coffee	Regular coffee	0	1
Milk Casein	As available	0	0
Mineral Oil	99% above	0	0
Coca-Cola	As available	1	1
Ketch up	As available	1	1
Beer	As available	0	0
Grease	As available	0	0
Red wine	As available	0	0

Rating details:

- | | |
|-----------------------------------------------|--------------------------|
| 0 - No stain | 1 - Less visible |
| 2 - Moderately visible | 3 - Stain highly visible |
| 4 - Stain not able to clean after application | |

(Stain from 1 to 3 can be fully cleaned using water within 24 hrs. After 24 hrs. suitable detergents or stain cleaner can be used to remove the complete stain).

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CHEMICAL RESISTANCE CHART

Chemical Name	Concentration (%)	CHEMICAL RESISTANCE @exposure period			
		1 hr	24 hrs	48 hrs	Prolonged exposure
Water	As available	3	3	3	3
Vinegar	5%	3	3	3	3
Milk	As available	3	3	3	3
Citric Acid	5%	3	3	2	1
Sodium hypochlorite	5%	3	3	3	3
KOH	45%	3	3	3	3
Petrol	As available	3	3	2	1
HCl	20%	3	3	3	3
Alcohol	10%	3	3	3	3
Oxalic acid	10%	3	3	3	3
Mineral Oil	As available	3	3	3	3
Sulphuric acid	100%	2	1	1	1
Sulphuric acid	50%	3	3	3	3
NaOH	50%	3	3	3	3
Methanol	As available	3	2	1	1
MEK	As available	3	2	1	1
Chloroform	As available	3	2	1	1
Xylene	As available	3	2	1	1
Ammonia	25%	3	2	1	1
Curd	As available	3	3	3	3
Ghee	As available	3	3	3	3
Butter	As available	3	3	3	3
Alcohol 45%	As available	3	3	3	2

Rating index:

1- Poor

2 -Good

3 - Excellent

- The chart exhibits that 90% of chemicals have excellent stain resistance. However, the chemical which are used in core industrial activity are rated 1 and hence care must be taken.

Important instructions

- In case of very weak or old joints, please ensure that proper strength or corrections 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 is not as per technical data mentioned, please call Walnut technical helpline or its nearest representative.

Technical Data Sheet

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).
- Suitable for all kind of green and normal buildings.

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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