

SUNKOLL LSA - 6420 ADHESIVE

Technical Data Sheet

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ABILITY ♦ STABILITY ♦ DURABILITY

नए भारत की नई ताकत

In Compliance With
IS 15477 Type III, EN norms – C2TES2
Main application
Fixing large slab of tiles & stone on
walls & floor including external facade
and in other heavy-duty areas.

SUNKOLL LSA - 6420 white cement base is a unique Eco-friendly, very high polymer modified, high flexible & deformable upto 2.5 mm., light weight, based on high quality mineral and ready to use adhesive for doing work on external facade, public infrastructure, on Industrial floor to fix all type and size of tiles, natural stone and re-composed stone material which are not sensitive to moisture. Suitable for Internal & External areas.

How To Use



Technical advantage of LSA - 6420 adhesive

- Best for high rise facade, external areas & for public infrastructure.
- Guaranteed fixing of all kind of tiles & stone slab including thin tiles slab, mosaic etc. on facade.
- High flexibility to accommodate surface movement including of high external temperature.
- Very high polymer modified, which makes adhesive highly deformable and it exceed **EN C2TES2 standard**.
- Fully thixotropic (Slip < 0.5mm.) for wall application and for big format of natural stone.
- Long life assurance of performance.
- Suitable to use on all cement based surfaces including all kind of cement based plaster, concrete, cement board of stable nature interior.
- The extreme white colour of adhesive for white stone & other transparent material.
- No water curing required.
- Very high coverages with best performance even at 2mm. thickness of use. Minimum 2 mm. till 15 mm. use.
- Best value using **SUNKOLL LSA - 6420** as an adhesive of superior class with no match.
- No need to mix any extra cement or sand. Ready to use.
- Very low VOC and suitable for green building.

Suitable Areas :

- Internal & External wall & floor including high rise facade.
- Residential & commercial buildings.
- Public infrastructure project including swimming pools and water tank.
- Industrial facility

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Water Proofing Chemicals | Adhesives | Grouts/Epoxy Grouts | Wall Putty

Suitable Surfaces :

- Fully dry and sound New or Old traditional plaster.
- New or old absorbent IPS or PCC floors which are sound and stable.
- Fully cure stable concrete of all type including machine cut concrete block and fly ash brick.
- Existing tiles or marble surfaces.
- Gypsum base plaster, screed or AAC block, cement panel (Autoclaved Aerated concrete). Apply primer before use.

Suitable Covering Material :

- Large format tiles of all type including vitrified low thickness slab of 3 mm. or more.
- All type & size of Ceramic & Vitrified tiles.
- All type & size of Ceramic Mosaic & GLSS MOSAIC
- All kind of stable Marble, which are not sensitive to moisture .

Product Not To Be Used

- On Metal, Wood & Other difficult substrate. (Use SUNKOLL GEL TILE ADHESIVE)
- To fix stone which are very sensitive to moisture.
- Dry walls which are sensitive to moisture and have movement due to temperature.
Use **SUNKOLL LSA - 6420 ADHESIVE**
- Over expansion joint or in area with extreme movement in structure.
- More than 15 mm. of thickness.

Important Tools For Application :

- Electric low speed mixing stirrer.
- SUNKOLL trowel of 3MM, 6MM, 10 MM. for big format tiles.
- Auto spirit level
- 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 :

- Ensure that surface is sound, clean and free from all foreign material such as oil, grease, dust etc.
- If surface is uneven of more than 15 mm. than first do the levelling by using correct levelling material in order to avoid using excess thickness of adhesive or apply first thin coat of same adhesive to level the surface and wait for 24 hours.
- Onto dry clean surface, splash enough water and let it surface dry to improve the workability of adhesive.
- If surface area are larger, provide movement joint every 3 meter.
- In case working on external façade, avoid direct sun exposure to surface and to finishing material. Let cool the surface before starting application. Hot surface may compromise final performance.
- Follow concrete expansion joint and connection joint as per standard.

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Mixing :

- Mix SUNKOLL LSA - 6420, 20 kg. White with approx. 6.5 lt.(Depend on Surface) of clean water. Use slow speed electric stirrer for mixing to have desire results. Manual mixing can compromise performance of adhesive.
- Adjust the water quantity as per ambient temperature and dryness of surface. The final mix must be workable paste.

How To Apply :

- Spread the adhesive in desire thickness from 2 to 15 mm. onto the base surface using SUNKOLL Trowel.
- Once adhesive is applied, fix the tiles or stone onto adhesive before skin formation & press firmly. In case tiles or stone are of big size, also apply the adhesive layer at the back of tiles.
- Leave the space between tiles or stone to have proper grouting and to accommodate surface movement.
- Leave the tiles or stone for 24 hours to bond well and then follow the grouting process.

Product & Working Data

Product appearance	: White colour powder
Packing	: 20 Kg. moisture proof bag
Shelf life	: 12 months from the date of manufacturing
Water ratio	: Approx. . 300 ML/ Per Kg.
Vertical slip resistance	: < 0.5 mm. (As per European norms)
Pot life	: > 2 hours
Thickness	: Minimum 1.5 to 15 mm.
Open Time	: ≥ 30 minute
Adjustability	: ≥ 30 minute } as per IS 15477
Initial setting	: 6 to 8 hours
Final setting	: 24 hours.
Walking on floor	: After 24 hours
Grouting	: After 24 hours
Normal use of surface	: After 2 weeks
Full strength of adhesive	: At 28 days
Coverage	: Approx. 40 sq.ft2 per 20 kg @ 3mm thickness Thick or 1.10 kg. / m2 / mm.
Application temperature	: + 5° C. to + 35° C.

(Data @ 23° C. & 50 % humidity)

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Uses of LSA - 6420

- Tile claddings, Porcelain tile, Vitrified tile & Low porous stones etc.
- Domestic and Industrial Application
- Applicable of tiles size 250 X 400 mm, 300 X 300 mm, 300 X 400 mm, 300 X 600 mm, 300 X 900mm, 600 X 1200 mm, 1000 X 1000mm
- External and internal application
- Sand stone, khatu, Lapato, Quartz, Lime stones, Granite, Elevation stone, Rajasthani black stone, Composite stone, Glass white & Marbles in internal application

Substrate : RCC, Cement Sheet, Plaster, AAC Blocks, tile on tile, Stone

Confirmed Standard : IS 15477:2019 (CM/L-7600160916)

Compliance Standard : EN 12004 & ISO 13007, ANSI A118.4

Limitations :

- Do not add additional water or powder after tile adhesive gets set

Technical Performances

PROPERTIES	STANDARD TEST METHOD	RESULTS
Appearance	-	White
Grade	-	Type-III, C2TES2
Tensile adhesion strength @ 28 days	IS 15477:2019, EN 12004	>2.6 N/mm ²
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	>3.2 N/mm ²
Deformability @ 28 days	IS 15477:2019, EN 12004	S2
Adjustability in min @ 20°C	IS 15477:2019, EN 12004	>30
Slip resistance in mm	IS 15477:2019, EN 12004	<0.5
Open time in min @ 20°C	IS 15477:2019, EN 12004	>30

*C2 = Type adhesive T = Thixotrophy E = Open time (Final Setting Time 28 Days)

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

Storage :

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C)

*Dependent on Storage Conditions

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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 surface, please ensure that proper strength or correction are done before use of adhesive.
- If product to be applied on cement based board, check the manufacturer instruction about suitability of board. Apply suitable primer in case needed. Consult SUNKOLL technical representative, if needed.
- When fixing resin based recomposed stone, ensure to provide movement joint and check the movement of stone.
- 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.
- Expansion & connection joint must be followed of concrete and all other elements of concrete structure.
- For any structure related issue, follow local code and appropriate consultant guidelines.
- In case the performance of SUNKOLL products are not as per technical data mentioned, Please Call SUNKOLL technical helpline.



SUNKOLL Green Building Index :

SUNKOLL 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, SUNKOLL procure the major raw material locally to safeguard environment.

SUNKOLL 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 SUNKOLL internal quality test. Customer must check before using the product about performance and final expected results. SUNKOLL cannot be held responsible for any damage of whatsoever nature at site.

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