

SUNKOLL CTA - 2105 ADHESIVE

Technical Data Sheet

SUNKOLL[®]
ABILITY ♦ STABILITY ♦ DURABILITY

नए भारत की नई ताकत

In Compliance With
IS - 15477 Type 1, EN Norms – C1TE
Main application
Adhesive for Flooring and Ceramic
Tile Adhesive

SUNKOLL CTA - 2105, is an Eco friendly, light weight, polymer modified, mineral based, ready to use adhesive for doing lite work of fixing absorbent ceramic tiles in internal area for renovation as well as fresh work. For interior use only.

How To Use



Technical Advantage of SUNKOLL CTA - 2105 Flooring and Ceramic Tile Adhesive

- Guaranteed fixing of absorbent ceramic & glazed tiles on floor & wall in the internal area.
- Exceed strength of class one adhesive as per IS norms.
- Very good coverage among class one adhesive available across industry.
- Suitable for renovation work.
- No water curing required.
- Saving of time & labor.
- Easy workability.
- No need to mix any extra cement.
- No need to soak absorbent tiles into water prior to fixing.
- Very low VOC and suitable for green building.
- For exceeded strength of class is 15477 Type-1 Indian norms

Suitable Areas :

- Internal Wall & Floor.
- Residential & Commercial Buildings.
- ACC Block Wall

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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.

Suitable Covering Material :

- Absorbent Ceramic Tiles.
- Glazed Tiles.

Product Not To Be Used

- On Exterior. (Use SUNKOLL STA -6215 Adhesive).
- On concrete and other rigid cement surfaces. (Use SUNKOLL STA -6215 Adhesive).
- On metal, wood, on cement boards. (Use SUNKOLL GEL Adhesive)
- On non-absorbent surfaces.
- For fixing vitrified tiles & stone. (Use SUNKOLL STA -6215 Adhesive).
- In interior wall height greater than 10 feet. (Use SUNKOLL STA -6215 Adhesive).
- More than 6 mm. of thickness. (Use SUNKOLL WFA - 3205 Adhesive)
- Over expansion joint or in area with extreme movement.
- In swimming pool or under water. (Use SUNKOLL GLASS MARBEL Adhesives).

Important Tools For Application :

- Electric low speed mixing stirrer.
- SUNKOLL Trowel of 3x3 mm., 6x6 mm. or 10x10 mm.
- 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 plaster / screed surface is sound, clean and free from all foreign material such as oil, grease, dust etc.
- If surface is uneven of more than 10 mm. than first do the leveling by using correct leveling 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 the enough water and let it surface dry to improve the workability of adhesive. If surface area is larger, provide movement joint every 3 meter.
- Follow concrete expansion joint and connection joint as per standard.

Mixing :

- Mix SUNKOLL CTA - 2105 Adhesive, 20 kg. Bag of powder with approx. 6 lt. of clean water. Use slow speed electric stirrer to have desire results. Manual mixing can compromise performance of adhesive.
- Adjust the water quantity as per ambient temperature & surface. The final mix must be workable paste.

How To Apply :

- Spread the adhesive in desire thickness from 3 to 10 mm. onto cement surface using proper notch trowel.
- Once adhesive is applied, fix the tiles or stone onto adhesive before skin formation and 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 to have proper grouting and to accommodate surface movement.
- Leave the tiles for 24 hours to bond well and then follow the grouting process.

Product & Working Data

Product appearance	: Gray colour powder
Packing	: 20 Kg. moisture proof bag
Shelf life	: 12 months from the date of manufacturing.
Water ratio	: Approx. 300 ML/Per Kg.
Pot life	: > 2 hours
Thickness	: Minimum 3 to 6 mm.
Open Time	: > 30 minute
Adjustability	: > 30 minute
Initial setting	: <12 hours.
Final setting	: 48 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. 35 sq.ft ² per 20 kg @ 3mm thickness
Working Temperature	: Thick or 1.25 kg. / m ² / mm. + 5° C. to + 35° C.

(Data @ 27° C. & 50 % humidity)

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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	-	Gray
Grade	-	Type-I, C1TE
Bulk Density	-	1.9 g/cm ³
Tensile adhesion strength @ 28 days	IS 15477:2019, EN 12004	>0.5 N/mm ²
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	>0.7 N/mm ²
Deformability	IS 15477:2019, EN 12004	-
Adjustability in min @ 20°C	IS 15477:2019, EN 12004	>20
Slip resistance in mm	IS 15477:2019, EN 12004	0
Open time in min @ 20°C	IS 15477:2019, EN 12004	>20
Pot life @ 27°C	-	Approx 2 hours

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

Storage :

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

*Dependent on Storage Conditions

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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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