

Technical Data Sheet

नए भारत की नई ताकत

In Compliance With

EN Norms – EN C2 T

Main application

Adhesive for fixing of all type of absorbent Ceramic & Porcelain tiles

SUNKOLL NCA K02 is an Eco friendly, polymer modified, light weight, based on high quality mineral, ready to use adhesive for fixing of all kind of absorbent ceramic, porcelain, glazed and other tiles. Suitable for internal & external areas.

How To Use



Technical Advantage of SUNKOLL NCA K02 Over Normal Adhesive

- Guaranteed fixing for all type and size of absorbent ceramic tiles & mosaic.
- Absorbent porcelain tiles of big size on wall can be fixed with ease in area such as bathroom, lobby etc.
- Exceed strength of class C2 T adhesive as per European norms.
- Semi-tixo properties for ease of application with absorbent tiles on floor and wall.
- Polymer modified for improved working.
- High speed of work with ease of application.
- No water curing required.
- High coverages with minimum thickness of 3 mm. and maximum upto 10mm.
- No need to mix any extra cement or sand. Ready to use.
- Very high mineral content.
- Very low VOC and suitable for green building.
- Light weight

Suitable Areas :

- Internal & External Wall & Floor.
- Residential & Commercial Buildings.

Suitable Surfaces :

- Fully dry and sound new or old traditional plaster.
- New or Old absorbent IPS or PCC floors which are sound and stable Absorbent Concrete.

Suitable Covering Material :

- All kind of Absorbent Ceramic & Porcelain tiles.
- Large format Absorbent tiles on wall.
- Ceramic Mosaic.

Product Not To Be Used

- On non-absorbent concrete surfaces
- On metal, wood, & on cement board. (Use SUNKOLL GEL ADHESIVE)
- To fix stone of all kind which are sensitive to moisture.
- To fix stone which are soft and brittle in nature. (Use Sunkoll gle adesive)
- To fix recomposed stone. (Use Sunkoll gle Adesive).
- Over expansion joint or in area with extreme movement in structure
- More than 10 mm. and less than 3 mm. of thickness.

Important Tools For Application :

- Electric low speed mixing stirrer.
- SUNKOLL trowel of 3x3mm, 6x6mm, 10x10mm.
- 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 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 the enough water and let it surface dry to improve the workability of adhesive.
- In case working in external environment, avoid direct sun exposure to surface and to finishing material. Let cool the surface before starting application. Hot surface may compromise final performance.
- If surface area are larger, provide movement joint every 3 meter.
- Follow concrete expansion joint and connection joint as per standard.

Mixing :

- Mix SUNKOLL NCA K02, 20 kg. grey bag with approx. 6.5 lt. and 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 and dryness of 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 & 30Kg. 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 10 mm. |
| Open Time | : ≥ 30 minute |
| Adjustability | : ≥ 30 minute |
| 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. 60 sq. ft. / Bag of 20 kg. Using 3 mm. |
| Application | Thick or 1.2 kg. / m ² / mm. |
| Application temperature | : + 5° C. to + 35° C. |

(Data @ 23° C. & 50 % humidity)

Technical Performances**In Compliance With EN 12004: EN C2 T Standard For Class 1 Adhesive**

| | | |
|--|--------------------------------|------------------|
| Tensile Adhesion | : $\geq 1.0 \text{ N / mm}^2$ | : As per EN 1348 |
| Adhesion after heat cycle | : $\geq 0.65 \text{ N / mm}^2$ | : As per EN 1348 |
| Adhesion after water immersion | : $\geq 0.8 \text{ N / mm}^2$ | : As per EN 1348 |
| Tensile Adhesion after freeze / thaw cycle | : $\geq 0.64 \text{ N / mm}^2$ | : As per EN 1348 |

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

In Compliance With IS 15477: 2019 Type 2 Adhesive

| | |
|----------------------------------|-------------------------------|
| Tensile Adhesion (Dry Condition) | : $\geq 0.8 \text{ N / mm}^2$ |
| Shear Adhesion (Dry Condition) | : $\geq 0.9 \text{ N / mm}^2$ |

(Final results @ 28 days. 27° C. & 65% 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. Freeze thaw cycles are having different curing cycles.

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 cement surface, please ensure that proper strength or correction are done before use of adhesive.
- If temperature is more than 35° C., then 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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