

SUNKOLL NAS K01 ADHESIVE

Technical Data Sheet



In Compliance With
EN norms – EN C2 TE & IS Standard
Main application
Adhesive for fixing of all type &
size of Tiles & Natural marble.

SUNKOLL NAS K01. is an Eco-friendly, high polymer modified, flexible light weight, based on high quality mineral, ready to use adhesive for fixing of all kind of high-quality tiles, stable natural marble, ceramic & glass mosaic of all kind including in swimming pool. Suitable for internal & external areas.

How To Use



Technical Advantage of SUNKOLL NAS K01 Adhesive

- Guaranteed fixing of all type & size of ceramic & vitrified tiles, ceramic & glass mosaic.
- Highly suitable for fixing all type & size of natural marble which are not sensitive to moisture.
- Best to use inside swimming pool and best to fix high quality glass mosaic application.
- High polymer content.
- Far exceed strength of **class C2 TE** adhesive as per European norms.
- Fully thixotropic (Slip < 0.5mm.) for wall application and for big format of tiles & marble.
- Extreme White colour of adhesive for natural marble and transparent glass mosaic.
- Long life assurance of performance.
- No water curing required.
- Very High coverages with minimum thickness of 2 mm. and maximum upto 15 mm.
- No need to mix any extra cement or sand. Ready to use.
- Very low VOC and suitable for green building points.

Suitable Areas :

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

Suitable Surfaces :

- Full 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.
- Gypsum base plaster, screed or AAC block, Panel (Autoclaved Aerated concrete). Apply primer before use.

Suitable Covering Material :

- All type & size of Ceramic & Mosaic.
- All type & size of Ceramic & Vitrified tiles.
- Large format tiles of all type including vitrified thin slab of 3mm.

Product Not To Be Used

- On metal, wood, & other difficult surfaces. (Use SUNKOLL GLE ADESIVE)
- To fix stone which are very sensitive to moisture.
- 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 3x3 mm.6x6 mm. for mosaic & 10x10 mm. for big format.
- 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.
- 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.
- If surface area is larger, provide movement joint every 3 meters.
- Follow concrete expansion joint and connection joint as per standard.

Mixing :

- Mix SUNKOLL NSA K01. 20 kg. Grey 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 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 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	: Gray colour powder
Packing	: 20 Kg. & 30 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 2 to 15 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. 90 sq. ft. /Bag of 20 kg. using 2 mm. Thick or 1.15 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 TE Standard For Class 2 Adhesive

Tensile Adhesion	: $\geq 2.1 \text{ N / mm}^2$: As per EN 1348
Sheer Adhesion	: $\geq 2.2 \text{ N / mm}^2$: As per ANSI A - 118.1
Adhesion after heat cycle	: $\geq 1.4 \text{ N / mm}^2$: As per EN 1348
Adhesion after water immersion	: $\geq 1.6 \text{ N / mm}^2$: As per EN 1348
Adhesion after freeze / thaw cycle	: $\geq 1.2 \text{ N / mm}^2$: As per EN 1348

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

In Compliance With IS 15477: 2019 Type 3 Adhesive

Tensile Adhesion Strength Dry Condition	: $\geq 2.15 \text{ N / mm}^2$
Tensile Adhesion Strength Wet Condition	: $\geq 1.2 \text{ N / mm}^2$
Shear Adhesion Strength Dry Condition	: $\geq 1.6 \text{ N / mm}^2$
Shear Adhesion Strength Wet Condition	: $\geq 1.6 \text{ N / mm}^2$
Shear Adhesion Strength Heat Ageing	: $\geq 1.4 \text{ N / mm}^2$

(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.

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 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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