



Suryshree Blocks
Private Limited
Committed to Quality

TECHNICAL DATA SHEET

***BUILDING NEXT
GENERATION OF
FUTURISTIC
CITIES***

Suryshree
Diamond Ultra S2
229

SURYSHREE

Diamond Ultra S2 229

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Ultra Strong Tile & Stone Adhesive

APPLICATION AREAS

Suryshree Diamond Ultra S2 229 is a blended polymer modified cement based high performance Tile, Adhesive for fixing of Ceramics Tiles, Porcelain Tiles & Vitrified Tiles on Interior/Exterior Floor, It is suitable for Ceramics Tiles, Porcelain Tiles & Vitrified Tiles on interior Wall Size more than 1200 x 1200 mm.

SUBSTRATE

Suryshree Ultra Diamond S2 adheres to all even, load-bearing, clean, dry and damp substrates free of substances which may impair adhesion. Remove coatings of insufficient bearing strength. Indoor use: Use SuPrima to prime calcium sulphate screeds (gypsum/anhydrite screeds, mechanically roughened and freed from dust, residual moisture: $\leq 0.5\%$, heated screeds $\leq 0.3\%$), cellular concrete and other absorbent substrates. Prime the non absorbent substrates, tiles, natural stone floors and firmly adhering coatings. Outdoor and indoor use: Plasters of mortar groups P II and P III (at least 14 days old), cement screeds (at least 28 days old, residual moisture $< 2\%$, heated screeds $< 1.8\%$) and in-situ concrete (at least 28 days old) can be directly covered with tiles / stones.

FEATURES

- Type 4 S2 as per IS 15477-2019
- For tile and stones of size more than 1200 x 1200 mm
- Application Up to 15mm
- Suitable for Large & Heavy Duty Vitrified Tiles
- C2 TE S2 Compliant with EN 12004 Standard
- Visible Fibers for Strength & Flexibility Balancing Substrate Deformation & Critical Surface Like, Balconies, Bathroom, Washroom, Terraces, Swimming Pool & External Facade etc

PRODUCT SAFETY

Product contains cement, strongly alkaline reaction with moisture, so protect skin and eyes. After contact wash immediately with plenty of water. After eye contact also seek medical advice. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet.

COVERAGE

Consumption may vary depending on the evenness on the substrate, trowel notch size, type of tiles / stone and the application technique.

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SHELF LIFE

Until 12 months since the date of production when stored in undamaged dry conditions and original packaging.

INSTRUCTION FOR USE

- The surface to be tiled should be sound and thoroughly cleaned to make it free from dust wax, grease, polish etc
- Pre measure 4.6 - 4.8 liters of clean water per 20kg of Suryshree Diamond Ultra S2, as per 23-24% ratio by weight, and pour into a suitably sized container
- Always put powder into water & mix it using a heavy duty slow speed drill at a low speed not to exceed 500 RPM fitted with a mortar mixing paddle
- Pre-wet tile and wait till it is dry. Pre-wetting is not required for vitrified/porcelain tiles
- Spread the paste to a thickness of approximately 4-8mm and comb with a notched trowel
- Ensure to apply the adhesive paste which can be tiled within 20 minutes
- Start placing the tiles on the surface to be tiled Tap the tiles properly with rubber hammer to ensure complete coverage of the backside of the tiles and to eliminate any possibility of air voids. Keep joints between two tiles using the spacers
- Allow tiling to set for 24 Hours
- Always use Notched Trowel for the better results

TECHNICAL DATA

Parameter	Results
Bulk Density	1.37 g/cc
Mixing Proportion	4.6 - 4.8 L of Water (23% - 24% by Weight) for 20 Kg Bag
Slip Resistance / Vertical Slip (T)	≤ 0.5 mm
Pot Life	4 hrs
Achieved Thickness	Up to 15mm
Application Temperature	From +5°C to +35°C
Grouting	After approx 24 hrs

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Parameter	Results	
Adhesive Tensile Strength (according to EN 12004 2017 standard @ 23 + 2°C)		
	Minimum Requirement	Values In Range
Initial Dry Condition (After 28 Days) > 0.50 N/mm ²	≥ 1.00 N/mm ²	1.70-1.90 N/mm ²
After Water Immersion	≥ 1.00 N/mm ²	1.20-1.45 N/mm ²
After Heat Ageing	≥ 1.00 N/mm ²	1.60-1.85 N/mm ²
After Freeze/Thaw Cycles	≥ 1.00 N/mm ²	1.30-1.55 N/mm ²
Open Time @ 20 Minutes	≥ 0.50 N/mm ²	0.10-0.40 N/mm ²
(According to IS 15477-2019 Standard @ 27 + 2°C)		
Dry Condition	≥ 1.50 N/mm ²	1.70-1.90 N/mm ²
Wet Condition	≥ 1.00 N/mm ²	1.20-1.45 N/mm ²
Shear Adhesion Strength (According to IS 15477-2019 Standard @ 27 + 2°C)		
Dry Condition	≥ 1.50 N/mm ²	1.70-1.90N/mm ²
Heat Ageing Condition	≥ 1.00 N/mm ²	1.60-1.90 N/mm ²
Wet Condition	≥ 1.00 N/mm ²	1.10-1.40 N/mm ²
Open Time	As Per Manufacturer	30 Mins
Adjustment Time	As Per Manufacturer	35 Mins
Temperature Resistance	From -30°C to +75°C	
Approximate Consumption	As a Guide : 1.2 kg / m ² / mm of Thickness	



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