

ULTRA NIGHT GLOW – TDS

Product Name:

Ultra Night Glow Epoxy

Product description:

Ultra Night Glow has luminous powder from rare earth, which can absorb ultraviolet, lamp light, sunlight and other visible lights in only 15 minutes, then giving out light up to 2 hours. Glow in the dark feature is characterized by their ability to absorb/ store the energy of natural/artificial lights and to emit it in the form of visible light in the dark.

Ultra Night Glow is a three part system comprising of PART A, PART B, and PART C for ease of application and the ability to fill tile/stone joints the grout is best mixed to a smooth, creamy consistency.

The cured grout does not permit the entry of bacteria or dirt and is easily maintained in a sterile condition.

Advantages:

- Glows in dark
- Absorbs day light / lamp light, UV light and other visible light and emit light up to 2 hours
- Sterile
- Durable joints
- Hygienic and chemical resistant
- High strength
- Stain and bacterial resistant
- Exceeds EN 13888 requirements
- Conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with aqueous food products

Area of Usage:

- Wall & Floor
- Interior & Exterior
- Dry & Wet area

Surface Preparation:

- Joints should be free from efflorescence, laitance, dirt and other loose material. Remove thoroughly by dry brushing.
- **Clean:** All joints should be cleaned down by washing with water containing detergent, then clean water.
- Ensure the joints are dry before grouting

Mixing:

Mixing proportion by Weight	
Part A	1.0 kg
Part B	500 g
Part C	3.5 kg

1. Before use shake the bottle of PART B and stir PART A.
2. Add all of PART B to all of PART A in a suitable, clean container and thoroughly mix together. If an electric drill mixer is used, blend at slow speed (less than 300 rpm).
3. Slowly add the required amount of PART C and mix until all the PART C has been dispersed and a uniform colour is achieved.
4. Immediately pour the mixed grout onto the working area.
5. The mixed grout is usable for up to 45 minutes at 27⁰±1 C.

Application:

Check potential staining risk: Apply grout to a few tiles in small trial area. If discolouration occurs or difficulties are encountered with cleaning off (surplus grout), apply ULTRA GREEN TILE & STONE SEALER – and repeat trial. Ensure adequate ventilation in working areas.

1. Using a hard rubber grout float, compact the Ultra Night Glow into the joints ensuring that they are completely filled. Work in small areas and remove as much excess from the tile surface as possible. Strike off excess materials diagonally to the grout lines.
2. Plug open-ended joints with the stiffer mix to prevent any slumping of the Ultra Night Glow joints from occurring.
3. Within 30 minutes of mixing, clean off surplus Ultra Night Glow. Use a Scrubber dampened with clean water to break down (emulsify) the grout residue. Use a circular motion and keep the Scrubber flat relative to the tile surface to achieve a flush joint. Warm Water, although not essential will greatly ease the emulsification process. Do not allow water to flow/run into un-grouted joints.
4. Clean off the emulsified epoxy / water residue with a fine sponge, taking care not to drag Ultra Night Glow epoxy from the joints. Clean diagonally to the grout lines.
5. Do not allow the haze to remain on the surface for any longer than 45 minutes.

NOTE: Care should be taken to avoid staining tiles when grouting. This is especially applicable when grouting unglazed floor tiles, quarry tiles, and tiles with a matt glaze or textured surface. Check the potential risk of staining by applying the grout to a few tiles in a small trial area. If working in food processing / preparation / storage areas, keep tiles / mosaics dry and do



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NOT bring floor into service until Ultra Night Glow is hard / cured. Avoid contact between food and tiling for at least 7 days after grouting.

TECHNICAL DATA:

Ultra Night Glow	@27±1°C
Joint Width	2 - 20 mm
Pot Life	45 minutes
Setting Time	48hours
Temperature	Prolonged -30° C to 50° C
Resistance	Intermittent Up to 70° C
Water Absorption	Nil
Specific Gravity	1.75
Typical Value	
Ultra Night Glow	@27±1°C
Tensile adhesion (14 day air)	
Dry Condition (kN)	
Ultra Night Glow	>4.5 kN
BS.5980:1980 min.	0.95
Wet Condition (kN)	
Ultra Night Glow	>3.6 kN
BS.5980:1980 min.	0.56

Exceeds the requirements of BS 5980 : 1980

Shelf life:

Ultra Night Glow has a shelf life of 12 months when stored in normal dry conditions.

Coverage Estimates:

Pack Size 5 kg	Coverage
PART A 1.0 kg PART B 500 g PART C 3.5 kg	Consumption depend on joint width, size of tiles and good workmanship Refer to the theoretical coverage calculation Below:

Theoretical coverage calculation:

$(\text{Tile length} + \text{Tile breadth}) \times \text{Tile thickness} \times \text{Joint width} \times \text{Specific gravity} \times 2 = \text{kg/m}$

$(\text{Tile length} + \text{Joint width}) \times (\text{Tile breadth} + \text{Joint width})$

NOTE:

* Specific gravity = 1.75

All the dimensions are in mm

Precautions:

Keep out of reach of children, Wear suitable protective clothing. Gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

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