

WA G

High performance night glow epoxy grout for walls & floors

DESCRIPTION

WA G 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. Available in Blue Green and Green.

WA G is a three component grout with high degree of resistance to chemical attack, abrasion and impact. The cured grout is hygienic, impervious and does not permit the entry of bacteria or dirt.

USES

Grouting of tiles/stones in areas where 'glow in the dark' effect is desired, such as

- Restaurants & Hotels
- Showrooms
- Multiplexes
- Bathrooms

FEATURES

- Glows in dark
- High strength and durable joints
- Hygienic and chemical resistant
- Stain and bacterial resistant
- Suitable for joint width of 2 - 20 mm
- Sterile

PHYSICAL PROPERTIES

WA G	@27 ± 1°C
Specific Gravity	1.77 g/cc
Joint Width	2 - 20 mm
Pot Life	45 minutes
Setting Time	48 hours
Water Absorption	Nil
Tensile adhesion 14 Day air	4.5 kN
Temperature Resistance	Prolonged -30°C to 50°C Intermittent Up to 70°C
VOC Content	158 g/L

CHEMICAL RESISTANCE

WA G is resistant to a wide range of liquids and chemicals, for specific information please refer to the following ARDEX ENDURA "Chemical Resistance" chart.

CHEMICAL RESISTANCE CHART - SUMMARY OF RESULTS

CHEMICAL	WA G
Acetic Acid (5%)	**
Acetic Acid (10%)	*
Acetone	*
Acetyl Bromide	*
Aluminium Bromide	***
Aluminium Fluoride	***
Ammonium Bromide (5%)	**
Baking Soda	***
Barium Hydroxide	***
Beer	***
Benzene	*
Boric Acid	***
n-Butanol	***
Butyl Acetate	*
Calcium Chloride	***
Calcium Hydroxide	***
Carbon Disulphide	*
Carbon Tetrachloride	*
Carbonates	***
Carbonic Acid	***
Castor Oil	***
Chlorides	***
Chlorinated Paraffin	***
Chloroform	*
Chromic Acid	*
Citric Acid	***
Coconut Oil	***
Cotton Seed Oil	***
Diesel Oil	***
Dilute Detergents	***
Ethanol	***
Ethyl Alcohol	*
Ethylene Glycol	***
Fats	***
Ferric Chloride	***
Fish Oil	***
Fluorides (except HF)	***
Formic Acid	*
Gasoline	***
Ground Nut Oil	***
Heptane	***

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Household Ammonia	**
Hydrobromic Acid	**
Hydrochloric Acid (dil)	**
Kerosene	***
Lactic Acid (3%)	**
Lime Juice	*
Linseed Oil	***
Lubricating Oils	***
Methanol	**
Milk	***
Nitrates	***
Nitric Acid (10%)	*
Olive Oil	***
Oleic Acid	***
Palm Kernel Oil	***
Palm Oil	***
Paraffin Wax	***
Phenol	*
Phosphoric Acid (10%)	**
Pine Oil	***
Polypropylene Glycol	***
Potassium Hydroxide	***
Proprietary Sterilising Agents	***
Silicates	***
Sodium Carbonate	***
Sodium Chloride	***
Sodium Hydroxide	**
Sodium Hypochlorite Soln. (15% available chlorine)	***
Soya Bean Oil	***
Sugars	***
Sulphates	***
Sulphuric Acid (45%)	*
Sunflower Seed Oil	***
Tannic Acid	***
Tetrahydronaphthalene	***
1,1,1- Trichloroethane	***
Vegetable Oils	***
Water	***
White Spirit	***

NOTE:

- * Splash contact only
- ** Contact for max. 24 hours before washing off
- *** Prolonged contact

COVERAGE ESTIMATES

Pack Size	Coverage
5 kg	Consumption depends on joint width and size of tiles
PART A 1.00 kg	
PART B 500 g	
PART C 3.50 kg	

1 kg

PART A 200 g
PART B 100 g
PART C 700 g

Theoretical coverage calculation:

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

Note:

- * specific gravity = 1.77
- All the dimensions are in mm

APPLICATION INSTRUCTIONS

Surface Considerations

- Before commencing grouting, the adhesive bed must be set.
- The joints must be clean of all adhesive residue, dust or debris.
- Lightly sponge the tile surface to remove dust & dirt.

Movement Joints: These should be provided in accordance with BS 5385: part 1 - 5 and may be filled with the appropriate flexible sealant. Intermediate floor joints should be reinforced with brass or stainless steel. Use stainless steel where hygiene is essential.

Mixing

The WA G consistency can be adjusted to suit the application and site conditions by varying the quantity of PART C added to the mixed PART A and PART B.

Before use shake the contents of PART A and PART B. Add PART B to 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). Slowly add the required amount of PART C and mix until it has dispersed and a uniform colour is achieved. Immediately pour the mixed grout onto the working area.

NOTE:

- In general, the PART C usage will vary depending on the consistency, temperature, different usage conditions, walls and floors building up of thickness, etc.
- Grouting at certain points: stiffer consistency required to 'stop' open-ended joints or grout skirting tiles.

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- Using a grout float or rubber squeegee, compact the mixed grout into the joints ensuring that they are completely filled. Work in small areas and remove as much excess grout from the tile surface as possible. Do not exceed the working time of the grout. Strike off excess materials diagonally to the grout lines.
- Plug open-ended joints with the stiffer mix to prevent any slumping of the WA G joints from occurring.
- Between 30 - 45 minutes after application (check for joints to be stiff), use a scrubber dampened with clean water to scrub the tile surface in a circular motion (in both clock-wise and anti-clock-wise directions)
- Clean the tile surface with a fine sponge, diagonally to the grout lines taking care not to drag the grout from the joints.
- After 12 - 24 hours, clean the tile surface with water and soap solution to remove any epoxy stains.

Note:

Care should be taken to avoid staining tile/stone during grouting. This is especially applicable when grouting unglazed floor tiles/stone, quarry textured surface, etc. Check the potential risk of staining by applying the grout to a few tile/stone in a small trial area.

CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

STORAGE AND SHELF LIFE

WA G has a shelf life of 12 months when stored in normal dry conditions.

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.

For more details please refer the relevant Material Safety Data Sheet

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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