EUNITILE G EM5

FAST-SETTING THREE-COMPONENT PERFORMANCE SOLVENT-FREE EPOXY TILE GROUT WITH CHEMICAL, ABRASION, AND SLIP RESISTANCE, AS WELL AS MOLD AND STAIN RESISTANCE

DESCRIPTION

EUNITILE G EM5 is a chemical-resistant, solvent-free three-part tile grout consisting of a resin base, hardener, and high-quality quartz fillers. It is a high chemical-resistant grade (CR) that provides durable and reliable performance for tile installation, ensuring long-lasting and visually appealing results.

USES

EUNITILE G EM5 is primarily designed for use as a bedding and jointing mortar in applications that require acid resistance, such as fixing acid-resistant bricks, tiles, paving, and channel blocks.

It is also suitable for jointing stoneware pipes, securing machinery bolts, and other areas that demand high structural strength and strong bonding properties.

Additionally, it is ideal for applications where exposure to corrosive substances is a concern.

ADVANTAGES

- Suitable for use in dry conditions
- High bond strength to most building materials
- Excellent mechanical properties
- Three-component pack allows for flexibility in use
- Xylene and desil for cleaning
- Chemical, acid, and bacteria resistant, suitable for use where hygienic conditions and/or chemical and acid resistance are required
- Stain resistant
- Suitable for internal, external, and submerged conditions

TYPICAL PROPERTIES		
Appearance	Buff Colored Powder	
Specific Gravity	1.8 ± 0.02 at 20°C	
Consistency	Thixotropic	
Drying Time	@ 10 °C	@20 °C
Pot Life	90 min.	45 min.
Foot Traffic	24 Hours	6 Hours
Full Chemical Resistance	14 Days	3 Days
Shrinkage (ISO 13007-4, 4.3)	< 3 mm/m	
Compressive Strength (BS 6319, PART 2)	72 N/mm^2	
Flexural Strength (BS 6319, PART 3)	35 N/mm^2	
Tensile Strength (BS 6319, PART 7)	16 N/mm^2	
Bond Strength to Wire Cut Brick/ Direct Tensile	4.2 N/mm^2	
Coefficient of Expansion	14.4 x 10^{-6} / °C	
Service Temperature	95 °C	

CHEMICAL RESISTANCE

The chemical resistance grade of our product demonstrates excellent resistance to inorganic acids. Typical data for solutions at 20°C over a period of 90 days are provided below. Please note that for specific chemicals and conditions, it is recommended to consult our Technical Department for more detailed information.

SOLUTION	EUNITILE G EM5
Caustic soda (30%)	G
Sulphuric acid (10%)	G
Trichloroethane	P
Fruit juice	G
Kerosene	E
Hexane	G
Hydrochloric acid (10%)	G
Bleach	E
Phosphoric acid (10%)	G
Fuel oil	E
Methylethyl ketone	P
Glycol ether	D

Key

E = Excellent; no change

G = Good; slight attack

P = Poor; heavy attack

D = Destroyed

MIXING

- Mixing Ratio: 4 parts filler to 1 part resin
- The grout is supplied in a three-component pack consisting of resin, hardener, and powder
- Thoroughly blend the resin and hardener packs before adding the filler component
- The mix ratio of the liquid components (resin and hardener) should remain unchanged
- The amount of powder added can be adjusted to achieve desired handling properties based on factors like substrate, temperature, and application method
- The working time for EUNITILE G EM5 is limited to 45-50 minutes
- Mix only the necessary amount of material that can be used within this timeframe
- After mixing, spread the grout thinly on a polythene sheet to prevent heat buildup and prolong the pot life

APPLICATION

Before applying EUNITILE G EM5, Ensure the substrate is clean, sound, and free from oil, grease, or other contaminants.

Remove any laitance on the surface through methods like wire brushing or sandblasting.

While EUNITILE G EM5 can bond with damp substrates, optimal results are achieved with dry surfaces.

If applying to a substrate with moisture content, consider the subsequent evaporation of residual water vapor.

COVERAGE

APPLICATION	COVERAGE	THICKNESS
JOINTING	3 meters of 10 mm x 20mm joint per kg	-
BEDDING	5.4 kg/m²	3 mm
NOTCHING	3.5 kg/m²	3 mm

PACKAGING

EUNITILE G EM5 is supplied in 5 kg packs.

STORAGE

EUNITILE G EM5 should be stored in closed containers to safeguard it from contamination and maintain its integrity. Extreme temperature fluctuations should be avoided to prevent any adverse effects on the product. It is advisable to store EUNITILE G EM5 in an environment with a controlled temperature range of 15°C to 25°C during the application period to ensure optimal performance.

Additionally, the shelf life of EUNITILE G EM5 extends for 12 months from the production date, emphasizing the importance of utilizing it within this timeframe to maintain its quality and effectiveness.

HEALTH AND SAFETY

For more information, please check the Material Safet Data Sheet.

CONTACT

For information regarding the licensee or manufacturer for ECA, please contact us at techsupport@alfaihaengineering.com.

DISCLAIMER

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.