

# KE-100 DUET

**GRESBOND KE-100 DUET:**  
Stain-Resistant Epoxy Grout for Floors & Walls

## PRODUCT DESCRIPTION:


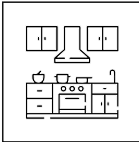
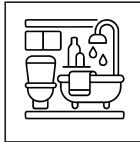
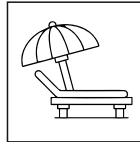
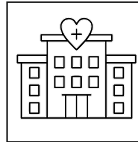
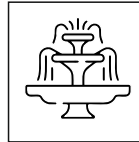
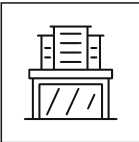
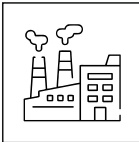
GRESBOND KE-100 DUET is a premium stain-resistant epoxy grout designed for both floors and walls. Suitable for all types of tiles, including marble and natural stone, this grout offers high resistance to chemicals and abrasion, ensuring durable and long-lasting joints. It produces hygienic joints that require minimal maintenance, making it perfect for kitchens and bathrooms. With its non-shrinking, fast-curing, and efflorescence-free formula, GRESBOND KE-100 DUET is ideal for installations requiring high-strength, mildew-resistant joints.



Available in 1kg and 5kg packs.

FEATURES / BENEFITS	SUBSTRATES
Colour-fast	Vitrified tile
Stain-Resistance	Ceramic tile
Easy to clean	Glass Mosaic Tile
Chemical and Temperature resistant	Granite
Non-cracking or powdering	Marble
Complies with ISO 13007 standards	Agglomerates (Engineered Stones)
Available in range of 20 colours	Precast Terrazzo tiles
UV resistant and suitable for external usage	

## APPLICATION

					
Residences	Kitchens	Bathrooms	Swimming Pools	Hospitals	Fountains
					
Showroom	Industrial Areas				

◆ **COMPLIANCE : ISO 13007 – 4 (RG)**

◆ **PACKAGING :** KE-100 DUET is a factory proportioned kit with Hardener and Resin Mixed with Coated Filler.

## UNIT NET WEIGHT:

COMPONENT	1 Kg.	5 Kg.
Resin Mixed with Coated Filler	0.920 Kg	4.6 Kg.
Hardner	0.08 Kg.	0.4 Kg.

## TECHNICAL DATA

ISO / EN Data



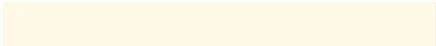
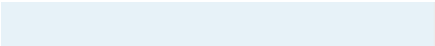



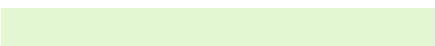










PROPERTY / TEST METHOD	REQUIREMENT	TYPICAL VALUES
Abrasion resistance: ISO 13007 – 4: Clause 4.4; EN 12808 - 2	$\leq 250 \text{ mm}^3$	Pass
Flexural strength under standard conditions: ISO 13007 – 4: Clause 4.1.3; EN 12808 – 3	$\geq 30 \text{ N/mm}^2$	38 - 40 N/mm <sup>2</sup>
Compressive Strength under standard conditions: ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4	$\geq 45 \text{ N/mm}^2$	55 – 57 N/mm <sup>2</sup>
Shrinkage: ISO +13007 – 4: Clause 4.3 : EN 12808 – 4	$< 1.5 \text{ mm/m}$	0.6 – 0.8 mm/m
Water Absorption after 240 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	$\leq 0.1 \text{ g}$	0.015 – 0.040 g

The grout mortar conforms to ISO 13007 – 4 (RG).

The mix density of KE-100 grout is 1750 kg/m<sup>3</sup>.

## GROUT COLOURS :

### Plain

	Crema		Aqua
	Champagne		Alpine Blue
	Ivory		Rose
	Autumn Yellow		Bottle Green
	Granilia Grey		Marble Beige
	Almondo		Steel Grey
	Fiero		Cobalt Blue
	Brown		Chocolate
	Copper Brown		Black

### Elite Plain

	Blanco Nieve		Turquoise Blue
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## WORKING PROPERTIES AT 70° F (21° C)

Pot life 45 minutes	Foot traffic 24 hours	Heavy traffic 72 hours
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#### Coverage:

Please refer to the coverage chart as it depends on the tile size, joint width and depth.

Tile Size X Thickness	Joint Width						
	2 mm	3mm	4 mm	6 mm	8 mm	10 mm	12 mm
100x100x3	264	177	133	90	68	55	46
150x150x4	296	198	143	100	75	61	51
200x150x5	269	181	136	91	69	55	46
150x300x6	263	175	132	88	66	53	44
300x300x6	394	263	198	132	100	80	67
450x300x7	405	270	202	135	101	81	68
600x450x8	506	337	253	169	127	101	85
600x600x8	591	394	295	197	148	119	99
600x900x11	515	343	258	171	129	103	86
900x900x12	590	393	295	197	148	118	99

#### \*Note:

Coverage: Approximate Sq. Ft. coverage per #1 unit (5 kg) of Gresbond. As per the actual site the consumption vary accordingly. These figures are for indicative purpose.

## Important Site Checks for Gresbond KE-100 DUET Grout Installation:

### Colour Confirmation:

- Verify the grout colour matches the client's desired selection.
- Test a small area with actual tile/stone to check for colour absorption by the material, which may cause discolouration.

### Movement Joints :

- Include proper movement and peripheral joints to accommodate movement in the tile/stone.
- Use a flexible grout or sealant for these movement joints

### Grout Limitations :

- Gresbond KE-100 DUET is a rigid epoxy grout and cannot accommodate movement in the tile/stone.
- Failure to incorporate movement joints can lead to cracks in the grout, tile or stone

### Sun Protection:

- When applying KE-100 DUET in open areas like swimming pools, keep the work area covered and protected from sunlight for 7 days.
- Maintain the cover until the pool is filled with water.

## SURFACE PREPARATION :

- Before grouting, remove debris from grout joints and lightly sponge the tile surface to remove dust and dirt.
- Do not use acid cleaners on tiles. If acid cleaners were used, wash the area thoroughly with water before grouting.
- Substrate temperature must be between 60°F (16°C) and 90°F (32°C)

## **MIXING :**

- Empty Parts A and B of KE-100 DUET Stain Resistance Grout into a clean mixing pail.
- Mix with a margin trowel or slow speed drill mixer until liquids are completely blended.
- Immediately pour the entire mixture onto a working area lined with a plastic sheet.

## **APPLICATION :**

- Use standard epoxy grouting techniques or a caulking gun to apply KE-100 DUET Grout into the tile joints.
- Ensure all grout joints are completely filled.
- Remove as much excess material as possible before cleaning with a grout float.
- Do not leave excess grout on the tile surface

## **CLEANING :**

- Remove excess grout from the tile faces with the edge of a grout float held at a 90° angle.
- Pull the float diagonally across the joints and tiles to avoid pulling out grout.
- After 30-45 minutes, scrub the surface of the tiles and joints with clean water and the provided scrubber to remove excess grout.
- Then, use a clean, thick white towel to remove any residue from the tiles.
- Perform a final cleaning within 24 hours using a normal soap detergent solution to remove any haze from the tiles.

## **SHELF LIFE AND LIMITATIONS :**

- Shelf life: 1 years in factory-sealed containers stored at temperatures between 32°F (0°C) and 110°F (43°C).
- Light coloured grout may darken slightly due to direct UV exposure. Consult GRESBOND technical team for specific exterior grouting recommendations.
- Not recommended for soft, polished marble or delicate glazed tiles.
- Maximum stain resistance is achieved 10 days after installation. Protect from acids and strong cleaners during this period.
- Adhesives/mastics, mortars, and grouts are not replacements for waterproof membranes. Use Waterproof Membrane when required

## **MAINTENANCE :**

- Clean grouts regularly with a neutral pH soap and water solution or GRESBOND Tile Cleaner Tc1 cleaner.
- Performance and durability depend on properly maintaining the installed area.

## **Customer Care**

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