

ROCKBOND
HERITAGE - GRID

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STRENGTHENING OUR HERITAGE

Structural 'reinforced' strengthening system for brick, block, stone, and heritage concrete structures

The Rockbond Heritage-Grid System consists of a high-adhesion waterproof mortar/render, and a high-strength AR Glass reinforcing mesh, that has been specially designed for the strengthening/rendering of heritage buildings. The Heritage-Grid System provides, a breathable, but waterproof rendered finish to the external/internal walls of brick, block and aged concrete structures, all while strengthening the structure to make it safe in earthquakes. The mortar component can even be pump/spray applied where large volumes are required.

SPECIAL PROPERTIES:

- High tensile strength
- Single component mortar mix - just add water
- Can be pumped/sprayed or hand placed
- High adhesion >2MPa
- High flexibility
- High durability and stability
- Waterproof from time of initial set
- Ideal for repairs to older, lower strength concrete
- Increases shear/tensile strength of walls
- Can be applied up to 30mm thick if needed
- Suitable for potable water applications
- Non-toxic
- Corrosion-Free

USES:

- Earthquake strengthening of brick and block masonry structures
- Heritage buildings
- Heritage bridge repairs
- Heritage seawall repairs
- Heritage wharf repairs
- Strengthening of old 'low MPa' concrete structures

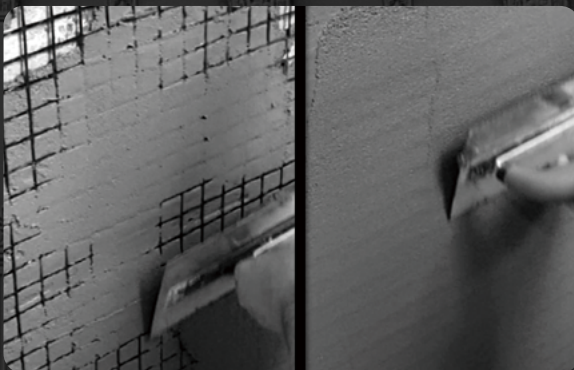
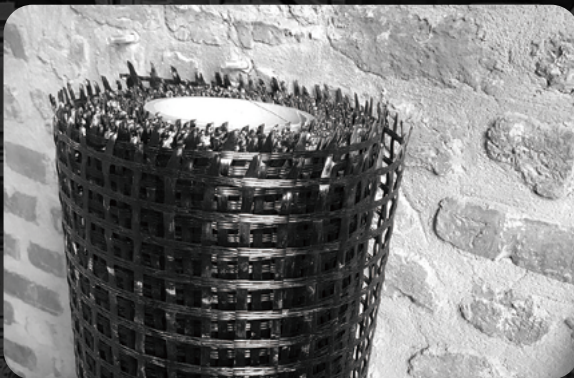
TECHNICAL DATA – HERITAGE MORTAR

Consistency:	Powder
Colour:	Grey
Compressive Strength:	27MPa/28 days (22.5MPa/7 days)
Flexural Strength:	>8MPa after 28 days
Adhesion (concrete substrate):	>2MPa
Maximum size of aggregate:	2.11mm
Bulk density:	2,120 kg/m ³
Chloride ion content:	≤ 0.05%
Maximum application thickness:	30mm
30mm Application Temperature:	+5degC to +35degC
Pot life of mix:	30 minutes (temp dependent)
Yield per 25kg at 13.5% water:	12 litres
Meets NZ Standards 4210:1989	

Note: For applications where a fine aggregate is required (<1mm), use 1.18F (Fine), which is a finer version of 1.18 with the same performance.



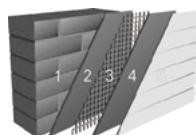
TECHNICAL DATA – HERITAGE-GRID AR GLASS MESH



Article description	Tolerance +/-		Testing method	
	RB 13.50			
	Warp	Weft		
Fibre type	AR-glass	AR-glass		
Finished weight (g/m ²)	230	5%	EN 12127:1997	
Coating (g/m ²)	39	5%	ISO 1887:2014	
	Warp	Weft		
Aperture size (mmxmm)	25.0	23.4	5.00%	ETAG 0004 C.3.3
Yarn count (yarns/10 cm)	3.75	3.75	0.50%	EN 1049-2:1999
Tensile strength (N/5 cm)	2050	2050	Ø	ISO 4606:1995
(MPa)	1502	1562	Ø	
Elongation (%)	<5%	<5%	Ø	ISO 4606:1995
Youngs's modulus (GPa)	72			
Coating type	SBR-Latex			
Thickness (mm)	1.24	Ø	ISO 4603:1993	
Weave	leno		DIN 61101-1 + DIN ISO 9354	
Standard measurement (cmxm)	100	50	0.50%	

HERITAGE-GRID STEPS

- 1 Concrete or Masonry
- 2 High quality adhesive mortar
- 3 SR-GRID = high-strength AE-glass, carbon, basalt or hybrid fiber mesh, weave lock coated
- 4 High quality adhesive mortar
- 5 Finishing Coat



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TECHNICAL ADVICE

Freephone 0800 76 25 26 to obtain a solution to your concrete problem from our experienced team.

ROCKBOND

WE'LL MAKE YOUR JOB EASIER!

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