

BluRez 304

EPOXY PUTTY



BluRez 304 is a two component epoxy paste which only requires mixing to form a high bond structural adhesive.

Uses

BluRez 304 is used for bonding, grouting and general repair of concrete. BluRez 304 will bond well to prepared steel, concrete and other compatible surfaces.

Advantages

- Excellent adhesion to damp and dry surfaces
- Gap filling qualities
- Non-sag on vertical and overhead surfaces
- Excellent chemical resistance

Preparation

Concrete should be at least 28 days old. All defective host substrate must be removed prior to application. Defective material includes cracked or structurally weakened surfaces and also chloride contaminated and carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications. Host concrete must be roughened and aggregate exposed to ensure good bond. High pressure water blasting or shot blasting of the surface is recommended for this purpose. All surfaces must be free of dust, oils and surface contaminants. This may require steam cleaning or high pressure water blasting if site conditions permit.

Mixing

BluRez 304 is supplied in precisely proportioned packaging ready for mixing. It is critical to the successful use of this product that part portions are not mixed. Add the two components together being sure to add the complete proportion of Part B to Part A. Mix together using a slow speed mixer (400rpm) for at least 3 minutes or until a uniform mixture is achieved.

Application

BluRez 304 may be trowelled onto prepared surfaces. Trowel adequate amounts of BluRez 304 onto each surface for bonding to create full contact. Bring both surfaces into contact and apply positive pressure until full cure is reached. Where multiple layers of BluRez 304 are being applied to a single surface, roughen between each layer and wait until initial set or all latent heat has dissolved prior to application of next layer.



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Product Data

Please refer to Important Notice on following page

Packaging	2kg set
Appearance	Part A (base) - white homogenous paste Part B (hardener) - black homogenous paste
Density	Part A: 1.69 ± 0.06 Part B: 1.99 ± 0.06
Mixing Ratio	2 Part A : 1 Part B by weight
Chemical Resistance	Resists water, alkali and dilute mineral acids
Minimum Application Temperature	5°C
Pot Life	40 minutes @ 25°C
Toxicity	Non-toxic on curing
Storage Life	12 months in original packaging

TESTED CHARACTERISTIC	STANDARD	RESULT
Compressive Strength	ASTM D695	@ 35°C 15N/mm ² @ 2 hours 25N/mm ² @ 4 hours 31N/mm ² @ 8 hours 56N/mm ² @ 1 day 68N/mm ² @ Full cure @ 30°C 10N/mm ² @ 2 hours 20N/mm ² @ 4 hours 30N/mm ² @ 8 hours 55N/mm ² @ 1 day 65N/mm ² @ Full cure @ 25°C 10N/mm ² @ 4 hours 25N/mm ² @ 8 hours 50N/mm ² @ 1 day 60N/mm ² @ Full cure
Flexural Strength	ASTM C580 - 2002	>8.0MPa @ 25°C
Slant Shear Bond Strength	ASTM C882/C882M: 2013a	>22N/mm ² @ 2 days >30N/mm ² @ 14 days



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