

BluCem RF20

RAPID FLOOR SELF-LEVELLING CEMENTITIOUS GROUT



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DESCRIPTION

BluCem RF20 is a one component cementitious powder blend which requires only the addition of water to form a self-levelling floor topping.

USES

BluCem RF20 is designed for levelling concrete floors, refurbishment of old concrete or tiled floors and resurfacing rain damaged concrete slabs. BluCem RF20 is rapid setting and ideal for projects where spaces must be returned to service quickly.

ADVANTAGES

- Type C Class, dual shrinkage control grout
- Special additives to improve chloride and sulphate resistance
- Fast setting and rapid strength gain
- Suitable for use outdoors and in wet-areas
- Feathered edges can be achieved

CONCRETE PREPARATION

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, mechanical chipping 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. Priming using BluCem API0 primer is recommended. Priming with epoxy primers may be possible in certain applications where high bond strength is required, contact Bluey for further details. Application of BluCem RF20 must commence within 4 hours of primer application.

MIXING

Measure and place 80% of the specified volume of potable water to the high shear mixing vessel. Start mixer and slowly add BluCem RF20 powder. If powder addition is too fast then large lumps will form and final mix will be slow reaching uniform consistency. Following addition of all powder, mix for 1 - 2 minutes or until uniform consistency then add final 20% of potable water. More or less water may be added within the ratio limits specified on this data sheet. Do not mix more material than can be placed in 10 minutes.

APPLICATION

The product may be poured or pumped into place. Check formwork for leaks prior to mixing and application of grout. Do not exceed the maximum application thicknesses specified in this data sheet for any wet layer. Consult Bluey for further information about aggregate addition for large volume pours. BluCem RF20 does not require trowelling or finishing with air-release rollers. The product has been specially formulated to provide surface finish independent of manual intervention.

CURING

No special curing techniques are required but it is important to minimise air flow across the surface for at least 24 hours.





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PRODUCT DATA

Packaging:	20kg bags
Ratio:	4.8 - 6.5 litres of water per 20kg bag of BluCem RF20
Yield:	~13.5 litres per 20kg bag
Minimum Thickness:	0mm (feather edge)
Maximum Thickness:	40mm in one application
Application Temperature:	15°C - 25°C
Pump Life:	10 minutes @ 20°C
Setting Times:	Initial set time is 15 minutes @ 20°C Final set time is 2 hours @ 20°C
Compressive Strength:	20MPa @ 24 hours 45MPa @ 7 days 50MPa @ 28 days
Flexural Strength:	5MPa @ 28 days
Clean Up:	Clean tools and surfaces using water prior to curing
Storage:	Store in cool dry conditions Shelf life is 12 months

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor is responsible for checking the suitability of products for their intended use.

Product properties are dependent upon seasonal and geographical criteria. Product properties and performance may vary between countries and locations within. We recommend that you clarify your specific requirements with your local Bluey representative to ensure that all specific project requirements are met.

NOTE

Field service where provided, does not constitute supervisory responsibility. Suggestions made by Bluey Technologies Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Bluey Technologies Pty Ltd are responsible for carrying out procedures appropriate to a specific application.

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