



Multiadd SBR 555 Bonding Agent for Old To New Concrete Bonding

Description:

Multiadd SBR 555 is a milky white, latex polymer, based on styrene butadiene rubber that is designed to improve the physical properties and integrity of cementitious mortars, screeds or renders, and act as a bonding agent / sealer to old & new concrete, plaster or other porous substrates. Multiadd SBR 555 improves durability, compressive, tensile and flexural properties of modified mixes whilst reducing permeability, making it suitable for horizontal or vertical applications both internally and externally.

Uses:

Multiadd SBR 555 is highly versatile and can be used for a variety of applications including filling of hairline cracks, as a bonding slurry and integral admixture for sand / cement mortars, screeds and renders, bedding of kerbs, tiles and other general concrete reconstruction work. Multiadd SBR 555 is particularly suitable for use with thin section repair mortars and screeds from 10 to 40 mm thickness, as an economical alternative to pre-bagged materials.

Pre-Treatment:

Concrete & masonry:

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate. Damp concrete is permitted however all standing water & puddles must be removed prior to the application of Multiadd SBR 555.

For small repairs:

Mark the extremity of the repair area and saw cut to a minimum depth of 10 mm to define the area to be removed. Chip out the area within the saw cut back to sound concrete, to a minimum depth of 10 mm ensuring no feather edges and a good mechanical key for the subsequent repair. If formwork is required, ensure it is well constructed and has a suitable release agent to facilitate easy demoulding.

For all applications:

Thoroughly soak concrete and masonry substrates with clean water for at least 1 - 2 hours, removing standing and excess water prior to priming with Multiadd SBR 555.

Priming:

Apply a bonding coat comprising 3 parts OPC, 1 part water and 1 part Multiadd SBR 555 to the pre-soaked concrete surface. Apply the subsequent SBR modified screed or mortar 'wet on wet' to the bonding coat.

DO NOT LET THE BONDING COAT DRY.

Work the primer well into the concrete surface using a stiff brush to give an even, continuous, unbroken coating. Simply re-prime if the primer coat has dried.

Technical Data

Properties	Test Standards	Typical Values
Appearance		Milky emulsion
Specific Gravity	ASTM D 1475	1.01 ± 0.02
Bond Strength	ASTM C 1042	> 8.6 N/mm ²

Application:

Apply the mixed material onto the prepared surface using a steel trowel, plastic or wooden float. Spread out and tamp or compact onto the primed surface to a minimum thickness of 5 mm. Subsequent layers can be applied to the first layer after approximately 12 hours. The first layer should be scratch keyed to assist with bonding. No further pre-soaking or priming is required between layers. This product can be applied using pumping equipment however we recommend using trained specialist applicators in the use of equipment and the product mix design to carry out the application. It is recommended to do on site trials to assess the actual coverage rates that can be achieved prior to commencement of the works. Expansion joints must be reflected through the repair or screed and preferably sealed with a sealant from the Multiseal range. We recommend construction joints be introduced at thresholds or perimeters, and joints induced to give a maximum bay size of 40 m² in accordance with BS 8204 –Screeds bases & in-situ flooring.

Curing:

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensure the performance characteristics of the product are achieved. The duration for curing will depend on the applied thickness and ambient conditions. Typically for thickness of 10 – 25 mm, allow at least 4 – 7 days curing using one of the products from Multitech Chemical range, applied immediately after initial hardening of the product or removal of any formwork. Thicker sections may need up to 28 days curing depending on the ambient conditions, however subsequent floor finishes should only be applied when the residual relative humidity (RH) has reached 75% or less. Please consult with Multitech Chemical regarding the compatibility of Multitech Chemical range of products with the subsequent finishes to be used, as this may help reduce preparation.

Cleaning :

Clean tools and equipment immediately after use with Multicleaner.





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Limitations :

Substrate temperatures should be above 5° C and rising. or application in temperatures above 40°C please refer to hot weather condition recommendations. Avoid application if the work area may be subject to the onset of rain or moving water. Additional coating protection should be applied if the product is exposed to chemicals. All products should be used within the pot life. Materials not used within the specified time should be discarded. The product should not be thinned with any type of solvent under any circumstances. If the above general application details do not meet with your requirements.

Storage :

Store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10° C but not exceeding 35° C.

Packaging:

Multiadd SBR 555 pack size: 20 & 200 litres.

Shelf Life :

Multiadd SBR 555 has a maximum shelf life of 12 months when stored in controlled conditions.

Disclaimer:

The information supplied in our literature or given by our employees is based upon extensive experience and together with that supplied by our agents or distributors, is given in good faith in order to help our customers. Our company policy is one of continuous research and development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work. We accept no liability for any loss or damage which may arise as a result thereof.

Health & Safety:

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes. Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting. Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces. Do not expose products to fire or naked flames under any circumstances.

