



Multiadd Latex 525 Admixture To Improve Bonding Properties Enhance Strength & Water Restance of Cement Motars

Description:

Multiadd Latex 525 is a latex specifically designed for use with cement compositions. It is used in mortar and concretes as an admixture to increase resistance to water penetration, improve abrasion resistance and durability. It is used with cement as a reliable water-resistant bonding agent. The use of Multiadd Latex 525 synthetic latex in cement based slurries and mortars compensates for many deficiencies in the mixes without detracting from their inherent strength and properties. Multiadd Latex 525 has been developed specifically for use with Portland cements. As ordinary mortar dries out, voids are left which make it permeable and weaker. Multiadd Latex 525 is added, the Multiadd Latex 525 particles bind together to form continuous films and strands - these stitch the opposite sides of the voids together and block up the spaces, increasing strength and resistance to water penetration. Multiadd Latex 525 combined with cement produces an excellent adhesive; each component compliments the properties of the other in this respect. Suitable for use in hot and tropical climatic conditions.

Characteristics:

- Improved flexibility.
- Reduced shrinkage.
- Lower water-cement ratio.
- Increased durability and toughness.
- Resistance to water penetration.
- Good abrasion resistance.
- Good frost resistance and resistance to salt per meation.
- Good resistance to many chemicals and to mineral oil.

Uses:

- Concrete repair.
- Floor screeds and toppings.
- External rendering.
- Waterproofing and tanking.
- Fixing slip bricks and tiles.
- Corrosion protection of steel.

Surface Preparation:

Surfaces to which Multiadd Latex 525 is to be applied should be clean, sound and free of deleterious substances. Remove all laitance, oil, grease, mould oil or curing compound from concrete surfaces using wire brush, scabblor or other equipment as appropriate. Ensure that reinforcing steel is clean and free from grease or oil; remove scale and rust. When repairing spalled or damaged concrete, ensure that the concrete has been cut back to sound material. Always pre-soak absorbent surfaces, such as concrete, brick, stone, etc., ensuring that they are saturated but free of surface water.

PRODUCT INFORMATION

Composition	Styrene and butadiene by high pressure emulsion polymerisation. The latex consists of microscopic particles of synthetic rubber dispersed in an aqueous solution.
Appearance & Colour	Milky, White liquid.
Density	~1.02 kg/l.
Total Chloride Ion Content	≤ 0.1 %.
Indicative Performance of Mortar Mix	Unless otherwise stated typical properties are based on a 3:1 sand/cement mix in which 10 L of Multiadd Latex 525 per 50 kg of Type I OPC cement has been incorporated. Compressive strength: 40 N/mm² dependent on cement used and workability. Freeze thaw resistance: Excellent. Water Vapour permeability: < 4gm/m²/24hr, through an 11 mm thick test piece. Adhesion: Excellent to concrete, steel, brick, glass, etc. Co-efficient of thermal expansion: -20°C to +20°C: 12.8 x 10⁻⁶, -20°C to +60°C: 12.9 x 10⁻⁶. Chemical Resistance: Resists mild acids, alkalis, sulphates, chlorides, urine, dung, lactic acid, sugar, etc. Resistance to water under pressure-30m head: Excellent - no water through a 15mm thick test piece.

Mixing:

Multiadd Latex 525 with the correct amount of water to produce a gauging solution. Pour part of the gauging solution into a suitable mixing container. While stirring slowly, add the cements and mix to the gauging solution and mix thoroughly until a smooth, uniform and lump-free mix is achieved. Within the mixing time add additional gauging solution to adjust to the desired consistency. For use as a bonding slurry or waterproof coating mixing is best achieved using a slow speed drill and paddle. Hand mixing is only permissible when the total weight of the mix is less than 25 kg. Prepare a bonding slurry of 1½ to 2 parts cement to 1-part Multiadd Latex 525, mixed to a lumpfree creamy, consistency. For renders, repair mortars, and floor screeds and similar aggregate or sand filled mortars, mixing should be in an efficient concrete mixer preferably a pan type mixer. Charge the mixer with the required quantity of sand, aggregate and cement and premix for approx. 1 minute. Add the Multiadd Latex 525 and mix for 2 minutes only, to avoid excessive air entrapment. Then add the water slowly until the required consistency is achieved (avoid adding excessive water).





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Application:

As a Bonding Slurry

Prepare a bonding slurry in line with recommended dosage. Using a stiff brush, work the bonding slurry well into the damp surface, ensuring that no pinholes are visible. Maximum thickness: 2 mm. If a second coat is necessary, it must be applied after the first coat is touch dry. The second coat must be applied at right angles to the first to ensure complete coverage. Coverage/Usage rate is approximately 20 L of Multiadd Latex 525 mixed with 50 kg of OPC Type I cement will give a creamy slurry which will cover 20 m² of substrate dependent on surface texture and thickness applied.

As a Vertical Render

Apply the bonding slurry to the prepared surface and then apply the Multiadd Latex 525 render into the wet bonding slurry. Apply Multiadd Latex 525 modified mortars in coats at a maximum thickness of 5–10 mm per coat. Greater thickness can lead to slumping. Several coats can be applied in fairly rapid succession, usually within 15 to 30 minutes of the previous coat. Close the surface using a wooden float or steel trowel.

As a Floor Screed or Topping

Floor screeds, based on Multiadd Latex 525 modified cements, can be laid to any thickness from 40 mm down to 12 mm minimum. After mixing, the Multiadd Latex 525 modified mix should be placed over the still wet bonding slurry, well compacted and struck off to level. It may then be trowelled to the required finish using a wooden float or steel trowel.

Cleaning :

Clean tools and equipment immediately after use with Multicleaner.

Storage :

Store properly in undamaged original sealed packaging, in dry cool conditions at temperatures between 5°C and 30°C. Protect from direct sunlight, contamination and moisture.

Packaging:

Multiadd Latex 525 pack size: 20 L cans, drums and 1,000 L flowbin.

Shelf Life :

MultiCreat Plaster Deco 220 has a maximum shelf life of 12 months from date of production if stored properly.

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.

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.

