TECHNICAL NOTE

USE OF EVERCRETE REPAIR MORTAR OVERLAY CONCENTRATE

Evercrete Repair Mortar Overlay is an acrylic polymer, which when added to Portland cement, gives it properties, which are not usually obtainable by using any other types of admixture. It produces a chemical as well as a mechanical bond both cohesively and adhesively. When Repair Mortar Overlay is added to a cement/sand mortar it gives strong adhesion and flexibility. The mortar can be laid from as thin as a piece of paper, to any thickness required. The result is a durable material, which is waterproof and will not delaminate even when laid to a featheredge. More importantly it makes the mortar waterproof and gives it the ability to stick to any sound surface.

Repair Mortar Overlay can be pre-blended with water and either added to a cement slurry, mortar or concrete.

Typical mixes are shown in the chart below:

Mix Selection for Grouts, Mortars and Concretes Containing Repair Mortar Overlay Acrylic Polymer Admixture

Thickness of Application (mm)	Pre-Mix Blend Of Repair Mortar Overlay Polymer and Water		Ordinary Portland Cement	Sand	10mm Aggregate	20mm Aggregate
	Polymer	Water				
Crack Filling	1	1	1	-	-	-
2.5 - 5	1	2	1	2 (pass 600µm)	-	-
5 - 8	1	2	1	2	-	-
8 - 12	1	3	1	2	-	-
12 - 25	1	4	1	2	2	-
25 - 50	1	6	1	2	3	-
Over 50mm	1	6	1	2	0.5	2

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Note (1) Add pre-blended water and polymer to the dry mix material to achieve the desired workability for the particular application.

(2) Pre-dampen dry concrete surfaces before application of mixed material.

(3) Proportions above are by weight.

(4) For 2.5 - 5mm thick layers use fine sand which passes a B.S. 600 micron sieve.

(5) For pre-application bondcoats, add a blend of Repair Mortar Overlay and water in ratio 1:1 to neat cement.

NOTE: The above are typical of the most widely used mixes. The addition of Repair Mortar Overlay to any mortar or concrete mix will make a considerable improvement to its hardening properties.

Advantages of using Repair Mortar Overlay polymer additions

Non-toxic water based polymer.
Enhanced adhesion strength.
Waterproofs and seals.
Not affected by UV degradation.
Environmentally friendly and safe to use.
Improves abrasion resistance.
Useful as an admixture in a bondcoat.

Typical Applications

Floor leveling and surfacing.
Concrete patching and repair.
Spalled and cracked concrete.
Horizontal concrete or asphalt renovation.
Vertical concrete finishing & renovation.
Slip resistant surfaces.
Reduction of vapour transmission through slabs.
Repairs of sport surfaces.
Highway structures including bridges pavements and kerbs.
Re-surfacing parking structures.

APPLICATION

1. Squeegee application

[A squeegee is a leveling/finishing tool with a rubber blade about 1.5 metres long with the blade perpendicular to the handle]

a. Most surfaces will require priming with a primer/bondcoat mix.
b. Dampen the surface of the concrete prior to application of mix.
c. Pour squeegee mix onto surface and spread evenly with the squeegee tool.
d. After smoothing and finishing the surface with the squeegee tool moist cure the material in the same way as normal concrete.

2. Patching application

a. Apply the patching mix to spalled areas, cracks and non-level areas, with the squeegee tool, or a small version of the tool for limited localized areas of repair. Allow material to flow into cracked and deteriorated areas and to fill voids.

3. Wall and soffit application

a. Prime the area to be patched with a bondcoat.
b. Apply repair mortar by trowel or hand and float to the desired finish.

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