

Po APPLICATION GUIDE



Polymer Admixture 850

USES

POLYMER ADMIXTURE 850 is a polymer dispersion for modifying, sand and cement mortars, renders and screeds.

PREPARATION

- Remove all damaged concrete to a clean, sound substrate, free from laitance and other surface contaminants.
- Step the perimeter of the repair site by approximately 10mm to avoid "feathering".
- Smooth cut surfaces should be roughened.
- Expose full circumference of reinforcement to at least 25mm behind the bar and 50mm along the bar, beyond the point of last visible corrosion.
- Remove any corrosive elements from the exposed reinforcement, and treat with **STEEL REINFORCEMENT PROTECTOR 841**.
- Saturate the substrate with clean water and allow to soak.



PRIMING

- The pre-dampened surface should be primed with a slurry made up of 1 part **POLYMER ADMIXTURE 850**, 1 part water and 2 parts ordinary Portland cement.
- Apply a thin coat of the slurry to the face of the concrete to be repaired.
- Allow the primer slurry to become dull before continuing with the repair.
- If the primer dries out fully, then it must be mechanically removed before re-priming.



MIXING

- Shake the bottle of **POLYMER ADMIXTURE 850** and empty the required amount into a suitable mixing vessel. Add an equal quantity of water.
- Slowly add the required amounts of sand, cement and, if necessary, coarse aggregate, as stated in the table below.
- Mix using a forced-action type mixer for 2-3 minutes. A normal concrete mixer is not suitable.



FLOOR SCREEDS/TOPPINGS

CLASS	THICKNESS (mm)	AGGREGATE : CEMENT RATIO	DRY SAND (kg)	DRY AGGREGATE		POLYMER ADMIXTURE 850	MAX. EXTRA WATER (litres)
				SIZE (mm)	WEIGHT (kg)		
LIGHT DUTY	8-15	1:4.0	200	-	-	12 litres	4
MEDIUM/ HEAVY DUTY	10-15	1:4.0	100	3	100	12 litres	8
MEDIUM/ HEAVY DUTY	15-30	1:4.0	112.5	6	87.5	10 litres	8.5
MEDIUM/ HEAVY DUTY	25-40	1:4.5	125	10	100	11 litres	7.3

RENDERING MORTAR		PATCHING MORTAR		HEAVY DUTY MORTAR	
Portland Cement	50kg	Portland Cement	50kg	Portland Cement	50kg
Medium Grade Sand	150kg	Medium Grade Sand	150kg	Medium Grade Sand	75kg
850	6 litres	850	8 litres	6mm Granite Aggregate	75kg
Water	15 litres	Water	15 litres	850	6 litres
Typical Yield	105 litres	Typical Yield	105 litres	Water	11.5 litres
Compressive strength (28 days typical)	40N/mm ²	Compressive Strength (28 days typical)	50N/mm ²	Typical Yield	95 litres
				Compressive Strength (28 days typical)	69N/mm ²

APPLICATION

- Compact the mortar or screed to remove entrapped air, in layers not exceeding 50mm.
- Use formwork where possible, and to facilitate easy release, **FLEXCRETE CHEMICAL RELEASE AGENT** should be used.
- For applications where more than one layer is required, the first layer should be severely cross-hatched or roughened. The next layer should then be applied when the first has stabilised but not fully set.
- Do **NOT** prime or wet out between layers.



CURING

Use **FLEXCRETE CURING MEMBRANE** where necessary.

STORAGE

Store in dry, frost free conditions at moderate temperatures. temperatures (40°C+) for prolonged periods.

Protect from high

SHELF LIFE

6 months in frost free conditions with unopened containers at 20°C.

SAFETY DATA

Safety Data Sheet available on request.



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