

# POLYMER ADMIXTURE 850



## USES

Admixture for cement mortars and floor toppings.  
 Sealer and primer for roof and deck applications in the clean water industry.

## THICKNESS

Repair mortar: Minimum 5mm, maximum 50mm in a single layer.  
 Floor screed: Minimum 8mm, maximum 40mm. Consult BS8204.

## TECHNIQUES

Hand, float or trowel. Brush or roller as a primer.

## PREPARATION



1. Cut back to sound concrete, minimum of 25mm behind reinforcement and 50mm beyond visible corrosion.
2. Saw or disc cut the perimeter of the repair to a minimum depth of 10mm.
3. Roughen smooth surfaces.
4. Remove all loose material, dust, surface laitance, mould release agent and any other form of contamination.
5. Clean reinforcement to bright metal.
6. Brush apply **STEEL REINFORCEMENT PROTECTOR 841** to the reinforcement in two 1mm coats. Allow the first coat to stabilise before applying the second coat.
7. Thoroughly soak the substrate with clean water until fully saturated. Remove excess water.
8. No primer required on vertical and overhead surfaces.
9. Prior to applying mortars or screeds to floors and decks, seal with a thin slurry consisting of 1 part **POLYMER ADMIXTURE 850**, 1 part water and 2 parts ordinary Portland cement mixed to give a thin emulsion consistency (coverage 10 to 15m<sup>2</sup>/litre of **POLYMER ADMIXTURE 850**). Allow to go matt before proceeding.
10. In drinking water applications, dilute **POLYMER ADMIXTURE 850** 1:1 with clean water and apply at 5 to 7m<sup>2</sup>/litre by brush or roller and allow to become clear.
11. If the primer is allowed to fully dry then it must be mechanically removed by blast cleaning or hand held power tools before re-application as above. Under no circumstances should fresh slurry be applied to hardened slurry.

## MIXING



2-3 mins

1. Shake **POLYMER ADMIXTURE 850** before use and pour the required quantity into mixing vessel together with an equal volume of water. Slowly add the required amounts of sand, cement and, if necessary, coarse aggregate, as determined from the mix design guide overleaf and mix until homogeneous.
2. Mix using slow speed drill and EPI paddle with a maximum speed of 750rpm, or in a forced action mixer. Mix for 2 to 3 minutes to an even consistency.
3. Continue to mix and add the minimum of extra water required to give the desired workability, to enable correct working and compaction. Use without delay.

## APPLICATION



1. Work an initial 5 to 10mm of repair mortar or screed into the substrate and behind any reinforcement by gloved hand, float or trowel ensuring it is well adhered.
2. Build up to maximum thickness in a single layer. If necessary, support with shuttering to allow for compaction if working to reveals, etc.
3. Finish with a dampened steel float working towards the edge of the repair.
4. Once stabilised, remove any trowel marks using a damp sponge.
5. On floors use a stiff brush to produce a slip resistant finish.
6. For multi layer application, use the fingers of a gloved hand to stipple the surface of the first layer. Allow to stabilise but do not leave to fully cure before applying a subsequent layer.
7. Immediately spray apply **CURING MEMBRANE WB** to aid curing.

## MIX DESIGNS/ YIELD

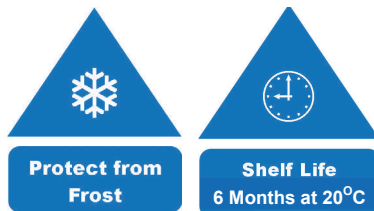
Type	Thickness (mm)	Sand (kg)	Aggregate		POLYMER ADMIXTURE 850 (litres)	Maximum Extra Water (litres)	Approx. Yield (litres)
			Size (mm)	Weight (kg)			
Light Duty Screed	8 - 15	200	-	-	12	4	120
Medium/ Heavy Duty Screed	10 - 15	100	3	100	12	8	115
	15 - 30	112.5	6	87.5	10	8.5	120
	25 - 40	125	10	100	11	7.3	130
Render Mortar	5-50	150	-	-	6	15	105
Patching Mortar	5-50	150	-	-	8	15	105
Heavy Duty Mortar	10-100	75	6	75	6	11.5	95

Note: All mixes based on 50kg of cement and saturated surface dry aggregates with 5% water in the sand and 1% water in the single sized aggregate. Maximum water additions give a water : cement ratio of 0.4.

## CLEANING

Clean tools with water immediately after use.

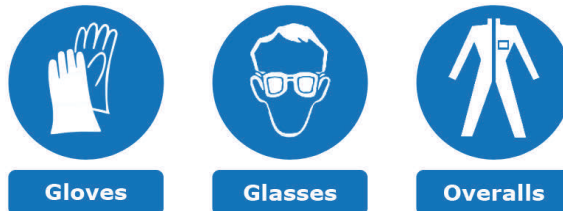
## STORAGE AND SHELF LIFE



## HEALTH AND SAFETY

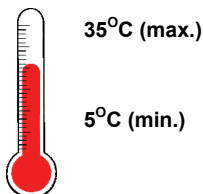
- Non Hazardous.
- See Material Safety Data Sheet (MSDS) for full information.

## PPE



## TOP TIPS

1. Consult BS 8204: Part 3 "Code of practice for polymer modified cementitious wearing surfaces" for further information.
2. Always use clean, washed sharp sand and add the minimum amount of water to give the desired workability, ease of placing and compaction. Do not exceed a 1 to 4 dilution of Polymer Admixture 850 to water.
3. **DO NOT WET OUT OR PRIME** between layers.
4. When finishing, trowel from centre out towards the perimeter working into the edges of the repair.
5. Cold Weather Working (see separate Guide)
  - $\geq 3^{\circ}\text{C}$  on a rising thermometer.
  - $\geq 5^{\circ}\text{C}$  on a falling thermometer.
  - Do not use any product which has been frozen.
6. Hot Weather Working (see separate Guide)
  - Store material in cool conditions to maximise working life.
  - Shade applied material from strong sunlight.
  - Spray apply a second coat of **CURING MEMBRANE WB**.
  - If possible, avoid extreme temperatures by working at night.



## APPLICATION RANGE



Flexcrete Technologies Limited  
Tomlinson Road  
Leyland  
Lancashire  
PR25 2DY  
United Kingdom  
Tel: +44 (0) 845 260 7005  
Fax: +44 (0) 845 260 7006  
Email: [info@flexcrete.com](mailto:info@flexcrete.com)  
Web: [www.flexcrete.com](http://www.flexcrete.com)



FM 41091 Quality  
EMS 597350 Environmental  
OHS 597351 Health & Safety