



Garden Street, Ramsbottom

Formulated

Polymer Products Ltd

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Coatings and Polymer Systems

FP 150 CONCRETE AND CEMENT ADDITIVE

FP 150 is a styrene butadiene copolymer latex emulsion designed for use in the construction industry. When added to cement mortars and concrete it bonds physically to the surface of the aggregate. When dry the finished mortars or concrete show a vastly improved resistance to water. This is achieved by the action of FP 150 creating a more impermeable surface. FP 150 also acts as a secondary binder to retard micro-cracking that can occur during shrinkage. This extra binding action results in a higher level of strength in the finished product.

PROPERTIES

Total Solids Content, %	42.0 - 46.0
Viscosity, centipoise	<200
pH	8.0 - 10.0
Appearance	Milky white liquid

APPLICATIONS OF FP 150 MODIFIED PORTLAND CEMENT

FP 150 is recommended for use in many areas of the construction industry where improvements in the physical properties of Portland cement systems are required. Although it is not possible to provide a complete list of applications, some typical areas are shown below.

INTERNAL AND EXTERNAL WATER PROOFING

Swimming pools, water tanks, reservoirs and dams, waterproof bonding and bedding, harbours and quays.

FLOORING SCREEDS AND PATCH REPAIRS

Concrete beams, floor patching, stairways, performance paving, etc. A primer coat is recommended for flooring and wall applications i.e. preparation of surface. Before using FP 150 based primer, it is important to ensure that surfaces are clean and free from dust and loose materials.

PRIMER MIX

Ordinary Portland cement	150 parts by volume
FP150	100 parts by volume
Water	As required

The optimum proportions of cement and FP 150 depend upon the background, the above mix is a typical example.

FLOORING APPLICATIONS MIX DESIGN

The mix design depends on the thickness and intended use. Typical mixes for a 12mm screed or topping are as follows.

	SCREES	TOPPING
Ordinary Portland cement	50	50
Sand	175	88
3mm Washed granite	88	
FP150	10	10
Water	As required	

COVERAGE RATE

As approximate guide 10 litres of FP 150 will cover 8m² at 12 mm thickness using the above mixes.

RENDERING

A primer coat is recommended to obtain maximum adhesion of the render.

A STANDARD RENDERING OVER TYPICAL BRICKWORK

Ordinary Portland cement	50
Sand	225
FP 150 latex	10
Water	As required



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WATERPROOF RENDERING

For above ground over concrete and for carbonation protection.

Ordinary Portland cement	50
Sand	150
FP 150 latex	14
Water	As required

Coverage rate: 1 litre of latex will cover 1m² at 15mm thickness.

OTHER USES

Bridge Decks and Supports
Roadways
Tiles and Slabs
Airport Taxiways
Brick Slips
Coping

STORAGE AND HANDLING

FP 150 should be stored in sealed containers between 5 and 30^o C. Protect from frost. Do not store containers in direct sunlight. FP 150 has a shelf life of 6 months when stored correctly.

The above information is given in good faith but without liability