

IWP RENDER ADDITIVE

LIQUID WATERPROOFING ADMIXTURE

DESCRIPTION

IWP Render Additive is an alkaline soap of mixed fatty acids compounded to a soft easily dispersed solution. IWP Render Additive is initially alkaline, and has no corrosive effect on reinforcement. It is economical and convenient to use. Not only is water repelling to reduce penetration but also water retentive which aids curing, ensuring maximum strength. It will help reduce the formation of efflorescence and lime bloom by restricting moisture movement and aid the reduction of crazing in rich mixtures by controlling rate of water evaporation.

IWP Render Additive may be used in any situation where it is necessary to construct cement based sections resistant to external water pressure, or to contain water in an enclosure.

Structures containing IWP Render Additive are not vapour-proof and therefore where applicable (i.e. flooring) a suitable vapour-proof membrane should be included.

APPLICATION

Where specific building methods are covered by British Standard Code of Practice, these should be followed as a guide to good building practice. New brickwork to be rendered should be left with raked mortar joints to form a key. Old brickwork, concrete or rendering should be raked out or hacked; existing plaster and decoration must be removed completely. Make good loose areas of rendering and ensure backing is sound, free from dust, laitance, paint, grease, oil surface water or any other contaminants which may affect adhesion. Porous surfaces must be established, for example with 1 part SBR Bond mixed with 2 parts cement (by volume) to produce a thin, smooth cream. Brush this mix vigorously into the surface and allow to harden (minimum 16 hours, maximum 3 days), then apply a bonding primer (to a

dry surface), composed of 1 part SBR Bond, 1 part water mixed with 5 parts cement (by volume). Render/screed into the bonding primer whilst still wet/ external renderings, mix designs should be chosen to suit the background, the exposure and the type of finish required. The mix design for each successive coat should be weaker and thinner than the coat to which it is applied.

MIX A: Waterproofing structures against ground water pressure, water retaining structures (swimming pools, tanks and ponds) and replastering after insertion of a dpc:

Cement: 1 part by volume

Sand: 3 parts by volume

IWP Additive/water: 1:25

Approximate yield per 50kg of cement = 0.14m³.

Well graded washed sharp sand to conform to BS1199:1976 Type 'A'.

MIX B: Screeds (minimum thickness 50mm)

Cement: 1 part by volume

Sand: 1 part by volume

10 – 12mm granite or shingle aggregate: 2 parts by volume.

IWP Additive/water: 1:30 (Gauge to a working consistency). The sand should conform to BS 882: 1992 Type M (flooring sand).

Approximate yield per 50kg of cement = 0.16m³

Waterproofing rendering mixes and bricklaying mortars:

Mix Type	Part by Volume		
	Cement/sand	IWP/water	Approx Yield/50kg cement
II	1:3 to 4	1:70	0.16m ³
III	1:5 to 6	1:85	0.24m ³
IV	1:7 to 8	1:100	0.32m ³

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SPECIALIST PRODUCTS

Use Mix A for strong clay bricks (engineering) and for pointing. Mix type III for normal strength bricks and Mix Type IV for lightweight blocks.

Mix Type	Background Material	Exposure conditions and mix type	
		severe	moderate
Wood float scraped texture first and subsequent undercoats	Strong, dense and smooth	II	II
	Moderately strong and porous	III	III
	Moderately weak and porous	III	IV
	No-fines concrete	II	II
Finish coat	Strong, dense and smooth	III	IV
	Moderately strong and porous	III	IV
	Moderately weak and porous	III	IV
	No-fines concrete	III	IV
Roughcast and dry dash first & subsequent	Not recommended undercoats over weak porous background	II	II

All mixes should be covered or mist sprayed for the first 48 hours. Best results are achieved if work is carried out at ambient temperatures, i.e. between 5°C to 25°C, with the use of well graded, clean, dry sharp sands. As with all admixtures, do not over mix and do not use with lime based mixes. For water retaining structures, e.g. ponds, after thorough curing and drying, all surfaces should be thoroughly cleaned to ensure all the surface lime from the cement is removed. The pond should then be partially filled with water, left over 24 hours, and the pH checked for suitability prior to stocking with fish. Care should also be taken to ensure that joints are staggered and corners covered.

STORAGE

Store in a dry place and protect from the frost, high temperatures and direct sunlight.

PACK SIZE

5 litres and 25 litres.

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