HIGHSEAL R

DESCRIPTION

HIGHSEAL R is a specially designed product which can be used as a render or concrete repair material to give a totally waterproof surface.

HIGHSEAL R can be used on all masonry as a waterproofing render or on concrete as a waterproof repair material.

ADVANTAGES

- Needs only the addition of clean water.
- Waterproofs.
- Protects against aggressive water and sea water.
- Suitable for potable water structures.
- Protects against positive and negative water pressure.

USE ON

- Basement retaining wall.
- Concrete slabs.
- Water retaining structures.
- Swimming pools.
- Waste water treatment.
- Sea walls.
- All masonry surfaces.

TECHNICAL INFORMATION

Binder	Ordinary Portland Cement
Colour	Grey
Size of Aggregate	0 – 0.6mm
Pack Size	25kg
Water Requirement	Approx.5 : 1 (powder : water)
Setting time	60 mins. (approx)
Pot Life	30 minutes dependant on temperature.
Storage & Shelf Life	Minimum 12 months when stored in original packaging.

TEST RESULTS

DETERMINATION OF WATER PERMEABILITY DIN 1048: PART 5:1991

Control Specimen (without surface coating)				Test Specimen (with surface coating HIGHSEAL R)		
Specimen ID	1	2	3	4	5	6
Maximum depth of Water penetration (mm)	48	47	45	Nil	Nil	Nil
Mean maximum depth of water penetration (mm)	46.7			Nil		

TESTING OF PHYSICAL PROPERTIES

Test Description	Unit	Test Method	Age/ Days	Specimen Results			Average
				1	2	3	
Pull Off Strength	(N/mm^2)	BS 1881-207	28	0.401	0.400	0.400	0.400

Note: The above technical information is based on controlled laboratory conditions. However, there may be variation in yield and coverage depending on the ambient weather and site conditions.

DIRECTIONS

Mixing

Put clean iced water in a clean mixing vessel, add the powder whilst mixing until the product has the consistency required.
The use of iced water is essential to achieve sufficient working time.

For use as a Render on Masonry

Preparation

All surfaces should be clean, free of grease and friable material, mortar joints should be cut back a minimum of 8 mm. The joints should be cleaned of dust and damped to SSD condition and re-pointed with HIGHSEAL R. Once the pointing has set the entire surface should be damped to SSD condition then it should be rendered with a coat of HIGHSEAL R approx. 12mm thick after this layer is set apply a further layer approx. 8mm thick. Keep the surface damp for 7 days to ensure full cure, water retaining structures can be filled 12 hours following application.

For use as a Concrete Repair Material

Preparation

All surfaces should be clean, free of grease and friable material. Prime the repair area with HIGHSEAL 200 in accordance with the Technical Data Sheet, to even out suction. Apply HIGHSEAL R in layers maximum 20mm thick until required repair depth is achieved (for depths above 100m use HIGHSEAL MICROCONCRETE). Keep repair damp for 7 days to ensure full cure.

STORAGE

Store powder out of sunlight and preferably in an air conditioned store to give maximum working time.

PRECAUTIONS

Application of the HIGHSEAL R should be done according to the procedure mentioned in this technical data sheet. We will not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non-recommended purpose.
Please contact technical team for more details on application of HIGHSEAL R for any purpose other than mentioned above or on surfaces with other special construction additives.

HEALTH AND SAFETY

This product contains cement, and contact with skin may cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with the product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice.
If mistakenly ingested, drink plenty of clean water and seek medical advice.