

# EPO SEAL R

Latex Modified Rigid Waterproofing Coating



## DESCRIPTION

**EPO SEAL R** is a two component product consisting of "Part A" a blend of liquid latex modified copolymers and "Part B" cementitious waterproofing powder. Both products part "A:" and Part "B" are mixed at the job site and applied with a brush or trowel.

## USES

- As waterproofing coating for concrete slabs (floors, kitchen floors, bathrooms under tiling etc.)
- As a protection to concrete surfaces from carbonation and chloride attack.
- As protective coating for underground structural concrete.
- As backing of marble and granite to prevent surface staining.
- As general-purpose thick coating to ensure water tightness of the structure.

## ADVANTAGES

- Excellent barrier to carbon dioxide, chloride and sulphate ions.
- Allows water vapour to escape from the structure.
- Waterproof-suitable for water retaining structures.
- Nontoxic - ideal for potable water tanks.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Minimum surface preparation needed and low labour costs.

## PRODUCT DATA

<b>Form</b>	Part A - White Liquid Part B - Dry powder
<b>Packing</b>	Part B - 20 Kg Kraft Bag Part A - 5 Kg Can
<b>Consumption</b>	1.8 Kg/m <sup>2</sup> (for single layer in bush application)
<b>Shelf Life</b>	12 months when stored dry conditions at moderate temperature and humidity.

## TECHNICAL SPECIFICATION

Test Name	Standard	Result
<b>Consistency (Liquid /Powder)</b>	--	5 Kg/20Kg
<b>Workability @25°C</b>	--	> 30 minutes
<b>Mixed Density</b>	ASTM C 138	1.800±0.10 Kg/Ltr
<b>Compressive Strength</b> 1 days 3 days 7 days 28 days	ASTM C 109	3.4 MPa 8.2 MPa 11.3 MPa 16.5 MPa
<b>Flexural Strength</b> 7 days 28 days	ASTM C 348	2.7 MPa 4.5 MPa
<b>Tensile Strength</b> 7 days	ASTM C 307	2.2 MPa
<b>Setting Time(min)</b> Initial Setting Time Final Setting Time	ASTM C 308	650 min 1000 min
<b>Hardness</b> 28 days	ASTM D 2240	65
<b>Water Absorption</b>	ASTM C 413	0.16%
<b>Water Vapor Permeability</b>	D/N 52615	1.7
<b>Shrinkage</b>	ASTM C 531	1.4
<b>Bond Strength</b>	--	1.32
<b>Water vapor permeability</b>	D/N J 2615	1.7
<b>Abrasion Resistance</b>	--	350 mm <sup>3</sup>
<b>Chloride Content</b>	ASTM C 1218	0.014



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Ver 01/20

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## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Typically concrete surfaces can be cleaned using high pressure water jet or grit blasting or by proper wire brushing. Spalled surfaces or those containing large blow holes, cracks and other such defects should be repaired using **EPO GULF** concrete repair mortars.

For further advice on suitable repair mortars, contact **EPO GULF** Technical department.

### MIXING

**EPO SEAL R** is supplied in pre-measured units and should be mixed on the site using clean plastic pails. Gradually add the dry powder (Part B) to the liquid (Part A) and mix using a slow speed electrical drill fitted with mixing paddle.

Do not mix more material than can be utilized within 1 hours' time. For small size mixes, use 4 part of powder for 1 part of liquid. Mix thoroughly and keep mixed during application.

### APPLICATION

Apply properly mixed **EPO SEAL R** whilst the concrete surface is damp. Use a stiff bristle brush or roller. For depressions more than 6mm make a trowellable mix using lesser quantities of liquid polymer (Part A) and apply using a trowel. Where more than one coat is necessary or specified, apply the second coat after previous coat has dried. Install in 1 or 2 coats a membrane of minimum thickness 1.5mm and do not exceed a thickness of 4mm.

If **EPO SEAL R** is used in areas that will be walked on or if required to toughen the coating applied then use of fiberglass or other reinforcing fabric is recommended. This is pressed into position whilst the first coat is still tacky and then followed by a full second coat.

**Note:** In hot weather conditions or in order to improve brushability, up to 2% (i.e. 500ml). Water may be additionally added per pack.

**Curing Period:** There is no need for a curing aid, it is important that applied surface is allowed to cure on its own for at least 7 days at 30°C and above or 14 days at 20°C or below. Any testing (if required) should be carried out after the curing period.

**Note:** If **EPO SEAL R** is used in tanking situations it is preferable to wash down the surface with water after the curing period and then put into use.

**Coverage:** 1.8Kg per square meter at 1 mm thickness. 1 full pack covers about 10 to 14 square meters at 1 mm thickness.

### PRECAUTION

**Cleaning:** All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

**Protection:** All works must be protected from rain and frost until fully hardened. It is recommended to Protect with polyethylene sheeting or similar.

### STANDARDS

Complies with **ASTM C 109, ASTM C 348 & ASTM C 413**

### HEALTH AND SAFETY

**EPO SEAL R** is nontoxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

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