

ALEX PROOF



Acrylic Polymer Modified Protective and Decorative Coating

Description

ALEX PROOF is two component acrylic polymer modified cementitious coating supplied in ready to mix, to produce an easily brushable coating used as a flexible cementitious water proofing coating.

ALEXPROOF can be simply applied by stiff brush, roller, spray or trowel to obtain a final finish by adding clean water to get easily brushable coating.

Uses

- Protect Reinforced concrete from attack by acid, chlorides and water.
- Protect concrete, bricks and other cementitious substrates.
- Protect the coastal facades buildings.
- Suitable for old, new buildings.
- Provide fair face surface.
- Crack bridging.
- Water proofing for water tanks and roofs.
- Provide a tough surface wear resistant coating.
- External application and provide a decorative function.

Advantages

- Non toxic, so used in contact with potable water.
- Flexible, with thermal expansion similar to concrete
- Water proof – suitable for water retaining structures in sewage treatment or potable water.

- Excellent barrier to carbon dioxide, chloride ions and water
- Allows water vapour to escape from the structure (Breathing)
- High resistance to the effects of long-term weathering, durable in all climatic conditions including UV attack
- Minimum surface preparation needed
- Covers honeycombed and pitted poured concrete effectively

Surface preparation

All surfaces should be dry and free from contamination Such as oil, grease, loose particles, moss, algal growth, laitance, and all traces of mould release oils and curing compounds.

This is best achieved by lightly grit-blasting the surface. Where moss, algae or similar growths have occurred till reach the sound concrete.

In case of damage concrete:

- Cut back to sound concrete, then repaired.
- Soak the cut area by water.
- Repair before painting by using

ALEX REPAIR MORTAR.

Standard

ASTM C-230

Properties

Pot life:	1hour @ 20°C	
Mixed density	1.80gm/cm ³ (brushable consistency)	
Colours	grey and white, Special colours on request	
Application temp	not less than 5°C	
Compressive strength	39 N/mm ²	18 N/mm ²
Tensile strength	5.0 N/mm ²	2.0 N/mm ²
Bond strength	3.20N/mm ²	0.5 N/mm ²
Flexural strength	10 N/mm ²	4 N/mm ²
Chloride ion resistance	coated	uncoated
1month (% Cl detected)	0.0004	0.0063
6months (% Cl detected)	0.0004	0.0344
Moisture vapour Permeability flux (g/m ² /day)	200	820

Guide to application

Mixing

- Mix the liquid to the water by using a low speed drill (250 r.p.m).
- Add the powder during mixing gradually to avoid lump formation and mix for 5 min,
- **ALEXPROOF** should be immediately used after mixing.
- Do not mix more material that can be used within the pot life.
- Keep mixing **ALEXPROOF** during the application.

Mixing ratio

Application:	Brush Spray Trowel		
components:			
powder, liquid	25	25	25
Water:	4	6-7	2

Application

- Surface should be damped after preparation.
- Use a short stiff brush.
- Apply one or two coat as required.
- In case of using spray or trowel application it should obtain the suitable consistency.
- For spray (airless) use Nozzle 3-4 mm and pressure of compressor equal 8 bar.
- In very hot weather (Temperature $\geq 40^{\circ}\text{C}$) use a primer consisting of **ALEXPROOF** + water in slurry consistency and apply **ALEXPROOF** while the slurry is still wet.
- In case of using in foot traffic recommended thickness = 2mm.

Cleaning

ALEXPROOF should be removed from tools and equipment with clean water immediately after use.
Hardened material can be removed mechanically

Estimating Supply

Industrial kit: of:	25 kg pack consisting
Powder:	23 kg bag
Liquid:	4 litre pail

Coverage (1mm thickness)

Brush applied:	18-20m ² per kit
Spray applied:	22-24m ² per kit
Trowel applied:	14-16m ² per kit

Depending on the nature of the substrate.

Shelf life

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs

Guarantee:

All precaution is taken in manufacture of each product to comply with the standard of each material.

The data sheet for each product for information only and may be corrected and no liability is accepted for it.

The results may have variation because the method of their use condition under which they are applied cannot be anticipated.

Technical Service:

For any technical advice for using the **ALEXCHEM** contact the technical office.

Storage conditions

Store in cool, dry conditions, away from sources of heat and naked flames, in the original, unopened packs.

If stored at high temperatures and/ or high humidity conditions the shelf life may be reduced

Safety precaution

- Non flammable
- Non toxic
- Any splashes on skin should be washed with clean water.
- Case of contact with eyes clean with running water and seek medical assistant.
- Wear suitable clothes, gloves and eye protection.

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