ARK CHEMICALS ®

SEAL FLEX 002

Decorative, flexible, anti-carbonation and waterproof protective coating for concrete

Description
Seal flex 002 is a flexible, elastomeric coating based on acrylic co-polymers. Applied as a liquid it cures to form a durable, protective, waterproof membrane. It is a single component emulsion containing inert pigments and has a brushable consistency. Seal flex 002 exceeds all the requirements of a coating that resists carbonation and prevents chloride ion ingress.

Primary uses
Seal flex 002 is designed for the protection of concrete structures against carbonation and chloride ingress. The product is also suitable as a seamless and elastomeric waterproofing coating for timber, asbestos / fibre cement and zinc sheets, asphalt, built-up felt and tiles.

Areas of application are:
- Multi storey car parks.
- Underpasses.
- Bridge, soffits, wing walls.
- Concrete repairs.
- Commercial buildings.
- Industrial buildings.
- Waterproofing a variety of substrates.
- Flat roofs

Advantages
- Easily applied by roller, brush or airless spray.
- Flexible - capable of bridging cracks.
- Protective - barrier against salts and atmospheric gases.
- High-build - masking imperfections in substrates.
- Waterproof - protects concrete from waterborne salts.
- U.V. stable - maintains its appearance.

Packaging
Seal flex 002 15 kg bucket l

Typical properties

Relative density:	1.35 at 25°C
Water vapour transmission:	45gms/m² per 24 hours - Taywood
Chloride ion diffusivity:	4.98×10^{-10} cm²/s
Reduction in chloride ion ingress @ 28 days	97%
Carbon dioxide diffusion:	R value at 325 microns greater than 161m
Application temperature:	5°C to 50°C
Chemical resistance:	resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis
Elongation:	>400%
Colours:	white

Application procedure
Seal flex 002 can be applied by brush, roller or airless spray equipment. For airless spray application dilute with 25% (15 kg in unit by volume of potable water.

Surface preparation: concrete
All concrete surfaces should be treated to achieve a sound, clean surface free from laitance, oil, grease, mould release agent, residual curing compound, dust or other contaminants that could impair adhesion.

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Surface preparation: roof waterproofing

Surfaces to be treated should be clean and dust free. All traces of oil, grease, mould release agent and residual curing compounds should be removed together with any other contaminant that could impair adhesion. Previous waterproofing treatments should be either completely removed or put in order. Cracked, broken, slipped or missing tiles, sheets, slates or other forms of covering must be replaced or refixed. Cracks in asphalt or built-up felt systems should be filled with mastic and allowed to cure.

Application

Seal flex 002Is applied to the prepared surface in two coats, the first being allowed to dry, before the second is applied.

In hot dry climates, application will be assisted by dampening brushes.

Where the roof is in poor condition, or where substantial movement is expected in the roof structure, apply a sandwich system incorporating reinforcing fabric.

In this application, the fabric is bedded into the wet film of the first coat of Seal flex 002 Using a charged brush. Ensure that full contact is achieved and there is no air entrapped. Apply a second coat of Seal flex 002when the first has dried, at right angles to the first.

Application

Apply in one or more coats ensuring a continuous even film. The finish may be textured if desired.

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Weather conditions

Seal flex 002 is not resistant to rain until the film has dried. This may take less than 30 minutes in hot dry climates and up to 24 hours in temperate humid conditions. Generally the product should not be applied in rain or if rain is forecast. Similarly, Seal flex 002 Will freeze in its wet state so should not be applied to frozen substrates or when the temperature is below 5°C or likely to fall during application.

Coverage

Depending on application requirements, please contact ARK CHEMICALS for technical guidance.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult ARK CHEMICALS Technical Services Department.

Quality and care

All products originating from ARK Chemicals' facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local ARK CHEMICALS representative. ARK CHEMICALS reserves the right to have the true cause of any difficulty determined by accepted test methods

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.