



Technical Data Sheet

GuardFlex 2K

Elastomeric Acrylic Cementitious waterproofing coating

Description

Guardflex 2K is a two-component acrylic polymer modified cementitious, flexible waterproof coating for internal and external applications.

Applications

- For waterproofing of water retaining structures and reservoirs.
- To provide protection for concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.

Advantages

- Waterproof, suitable for water retaining structure and basements.
- Breathable, water vapor preamble
- Durable, excellent resistance to UV attack.
- Reinforced acrylic with excellent protection against carbon dioxide, chloride ions and water.
- Non-toxic, suitable for drinking water (BS6920-2.3).
- Cost effective, quick, and easy brush or spray application.
- Suitable for internal and external applications with attractive colors available.

Technical properties

Color	Gray, White, ...
Mixed density ASTM D1475-13:	1.95 ±0.1 kg/L
Working time:	45 minutes @ 20°C
Adhesion Strength ASTM D4541	>2.0 Mpa
Water penetration @ 7Bar BSEN 12390-8	Nil
Drying Shrinkage BSEN445	1.1%
Tensile Strength ASTM C307:20203	>1 N/mm ²
Crack Bridging ASTM C1305-16	>1.5mm
Bond Strength ASTM D4545	>1.50 MPa
Elongation ASTM D638-2014	>8% @ 50mm/min. 40hr
Potable water BSEN1186-9 / BS6920-2	Approved
Application Temperature:	5°C - 40°C



Method of use

Substrate preparation

- The surfaces to be coated should be clean, sound, and free from any contamination.
- Remove any traces of curing compound, laitance, organic growth or any other loose materials. This is best obtained by using high pressure water or light grit blasting.
- Honey combing, damaged or deteriorated concrete exists, the substrate should be repaired using suitable low permeability repair mortar from **Envirocon** repair systems before commencing the coating.

Priming

No primer is required, but substrates should be pre-soaked with clean water prior to application of **Guardflex 2K**.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Mixing

- To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- The 8.0 kg of **Guardflex 2K** liquid should be added to a clean container. The 22.0 kg powder is then added slowly to the liquid while mixing continuously with low-speed mixer/drill (400 – 600 rpm).
- Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

Application

Guardflex 2K can be applied by brush or spray.

The mixed material should be brushed well into the surface. Strike off with the brush in one direction.

Care must be taken not to spread the material too thin. When the material begins to drag, do not add any water, but dampen the surface again.

Leave the first coat overnight to cure before applying the second coat. If the first coat is left for more than one day or if it is very dry, pre-soaking with clean water is needed before applying the second coat.

The second coat shall be applied by brush in a similar way to the first layer but preferably perpendicular to the previous layer to ensure good bond and coverage

Coverage

Approximately 17.0 m²/ 30kg for 1mm thickness.

Storage

Guardflex 2K has a shelf life of 12 months if stored at temperatures between 5°C and 35°C in original unopened bags.

Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials should be cleaned mechanically.

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Packaging

Guardflex 2K is available as 30kg packs (7.0 kg polymer & 23.0 kg powder).

Cautions

Health and safety

As **Guardflex 2K** contains Portland cement and sand, **Guardflex 2K** may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice

Fire

Guardflex 2K is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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