

FlexKey Datasheet

September 2019

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A non-toxic polymer-based liquid admixture for Portland cement plasters; screeds or concrete.

Purpose

FlexKey is a specially formulated cement additive designed to replace some or all of the water in cement mixes to improve bond, waterproofing, flexural, tensile and abrasive strengths, adhesion, thin film hardness, adhesion to asphalt, drying shrinkage and enhances chemical resistance.

FlexKey does not only greatly enhance the performance of cement based products but can also be used as a primer to improve the properties of the substrate to which it is applied such as screeds, concrete, plasters, renders etc. prior to tiling, and repairing etc.

Technical Data

Type	Ready for use polymer-based cement admixture
Colour	Milky white in liquid form
Ambient temperature	Avoid extreme temperatures and store above 5°C
Boiling point	100°C
Density	± 1kg/litre
Properties	Open drums will skin. Stable when mixed with cement
Other properties	The base polymer is slowly biodegradable
Safety	See MSDS

Advantages

- Ready for use - no dilution required.
- Once cured the polymer is water and frost resistant.
- Enhances flexibility and adhesion of cement based products.
- Greater resistance to water soluble chemicals.
- Lime fast.
- Compatible with Portland cement, High Alumina cement, lime and sand and mixes readily with these.
- Better acid resistance.
- Good as a primer to consolidate dusty and friable cement surfaces, prior to bonding with tile adhesives or coatings.
- Can be used in water containing structures.

Limitations

- Will not bond to plastic, rubber or gypsum plaster.
- Protect against freezing.
- Cannot be mixed with Cretestone or gypsum based products.
- Products may dry a shade darker than those with only water added.

Storage

Store in a dry shed protected from freezing for 12 months from date of invoice. Stir well from the bottom if storage is prolonged.

Safety

Avoid skin and eye contact. Do not ingest. Wear safety glasses, gloves and protective clothing when necessary. Keep away from children and pets. Keep sealed and isolate from other chemicals. In the event of contact with skin or eyes, rinse thoroughly with clean water. In the event of skin irritation or discomfort seek medical attention. See the relevant MSDS.

Cemcrete provides a comprehensive technical service based on over 4 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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Surface preparation

Ensure that all surfaces are dry, sound, clean and free of grease, organic growth, dust or any form of laitance whatsoever or any contamination that could impair bonding. Organic growth can be removed and treated with a propriety manufactured fungicide. Oils and grease can be removed using a degreasing agent. Rinse with clean water.

Mixing

Ready for use - no diluting required.

Applications

For use as is to waterproofing unpainted, cracked reservoirs; patching and repairing concrete; to improve adhesion of tile adhesive to difficult substrates with little or no suction and waterproofing shower floors.

FlexKey can be diluted a further 1:1 with water as an additive for the re-plastering of swimming pools and as an additive to promote colour enhancement and chemical resistance to plaster mixes.

Curing

FlexKey does not affect the setting times of cement based products and depends on the type of application. Refer to the relevant product datasheet with which it is used.

Coverage

Depends on the application, product type and surface porosity. As a primer, depending on the nature, surface profile and method of application the coverage is estimated as $\pm 9\text{m}^2/\text{litre}$ per coat.

Packaging

FlexKey is supplied in 1, 5 and 20 litre containers.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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