

K2 BRUSHGARD

ACRYLIC POLYMER MODIFIED ELASTOMERIC WATERPROOFING
MEMBRANE COATING FOR CONCRETE AND MASONRY SURFACES



K2 Brushgard provides a monolithic, waterproof coating suitable for use in water tanks, reservoirs, swimming pools, roofs, lift pits ensuring water tightness.

K2 Brushgard effectively protects against concrete decay and provides a long lasting barrier to waterborne and atmospheric corrosive salts and gases.

K2 Brushgard is formulated to repair and even out undulations in concrete and masonry surfaces.

K2 Brushgard seals concrete masonry walls and bridges the shrinkage cracks which are static.

K2 Brushgard provides a strong, flexible and durable coating which cannot be easily damaged or worn away.

BENEFITS

- Easy surface preparation and thereby lowers labour costs.
- Brush applied directly to the damp concrete and masonry
- Excellent adhesion - Bonds to porous and nonporous surfaces.
- Non-toxic-safe for potable water tanks
- Waterproof - Excellent for damp-proofing basements
- Breathable-allows escape of water vapour from interior of building
- Excellent for concrete roof, leaking brick and masonry walls
- Effectively prevents carbonation and Chloride ion diffusion and is UV resistant.

DESCRIPTION

K2 Brushgard is a two component acrylic polymer modified elastomeric waterproofing membrane which consists of powder and acrylic emulsion in a fixed prepacked dose. It requires only the addition of fresh water on site and when mixed in the proper proportions, an easily brushable coating is produced. K2 Brushgard can simply be applied by a stiff brush, or trowel to obtain the desired thickness. The polymer provides K2 Brushgard with exceptional adhesion, toughness and durability.

PROPERTIES

Pot life at 20°C : 1 hour

at 35°C : 20 min.

Mixed Density : 1.90kg/ltr. (brushable consistency)

Tensile strength (ASTM D 638) : 2 N/mm² (at 1.5mm thickness)

Colours : Grey

Application temperature : Not less than 10°C

Toxicity : Non-toxic

Adhesion to concrete : > 1N/mm²

K2 Brushgard provides an elastomeric protective waterproof coating and is seen to resist positive hydrostatic pressure upto 7 meter head. The degree of resistance of K2 Brushgard to water under pressure depends on the thickness of the coating. Areas subjected to moderate and heavy loads/hydrostatic pressure. minimum 2mm thickness coating is recommended with screed above.

APPLICATION INSTRUCTIONS

Preparation

All the surfaces where K2 Brushgard is required, must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spalled and deeply porous concrete should be removed to sound concrete and repaired with polymer modified mortar.

Mixing

The acrylic polymer liquid is poured into a clean plastic or metal basin. To this, an equal volume of clean fresh water is added, for brush application consistency. Then mixing is started with a slow speed drill (350-450 rpm). The powder component is added gradually to the liquid avoiding lump formation and mixed for 2-4 minutes. Mix and use. More material should not be mixed than can be used within pot life. Over dilution with water should not be done. Keep on stirring during application.

Mixing Ratio

K2 Brushgard Components pack

Powder - 3kg Acrylic polymer liquid - 1Lt

Application

For best results moisten the surface with fresh water before coating with K2 Brushgard. Apply the mixed material using a short, stiff bristle brush preferably 100 to 150mm width like a paint. Trowel applications can be undertaken as necessary using the correct mixing ratio to obtain satisfactory consistency. K2 Brushgard shall be applied in two coats to achieve 1mm thickness. The second coat of K2 Brushgard should be applied as soon as the first coat has reached touch dry state.

On hot substrates of over 40°C surface temperature, a primer coat of mixed K2 Brushgard and water with a slurry like consistency should be applied. Prime only areas that can be coated with K2 Brushgard before the primer dries. Material should not be applied at temperatures below 10°C. It is recommended that for general re-surfacing the total thickness of the applied material be 1 to 2 mm. Areas subjected to moderate and heavy loads/hydrostatic pressure, minimum 2mm thickness coating is recommended with screed above.

Allow the K2 Brushgard to dry before covering with screed. Sprinkle coarse sand on wet surface of final coat for better adhesion of screed. Average drying time is 4 to 6 hours at normal temperatures.

Subsequent Finishes

K2 Brushbond provides a neat surface finish texture depending on the method of application, and does not normally require any further surface finishes and is compatible with most forms of subsequent coatings.

Cleaning

K2 Brushgard should be removed from tools and equipment immediately after use with clean water. Hardened material can be removed mechanically.

Packaging

K2 Brushgard powder is supplied as a package of 3 kg powder and 1 Lt can containing acrylic polymer liquid.

Coverage

This depends on the required consistency. The approximate coverage per pack at even consistency (1 mm thickness) is as follows :

Coverage in sqmt (3kg + 1 lt pack) 2.5 to 3 sqmt

Allowances should be made for any possible wastages when estimating.

STORAGE

K2 Brushgard has a shelf life of 6 months in unopened packs, if kept in a dry store. In high humidity locations, the shelf life may be reduced to less than 6 months. Prevent the liquid component from freezing.

Health and Safety instructions

K2 Brushgard is non-toxic but it is alkaline in nature. Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. Should use a dust mask while handling the powder.

Fire

K2 Brushgard components are non-flammable.

TECHNICAL SUPPORT

The company provides a technical service supported by a team of specialist applicators in the industry

Important note :

Jay Chemical Industries Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Jay Chemical Industries Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.



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