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Product Data Sheet PDS005: Armourcoat K124 and K149 Fine Keycoat

1 Product description

Armourcoat K124 Keycoat and K149 Fine Keycoat are natural mineral materials composed of hydrated lime, marble and cement combined with additives to control working characteristics and adhesion.

Armourcoat K124 Keycoat and K149 Fine Keycoats are designed to bond to the Armourcoat K40 primer and give a strong mechanical key to the subsequent layers of plaster. Armourcoat K124 Keycoat and K149 Fine Keycoat will also provide a limited suction for the subsequent layers of plaster.

2 Properties

- natural mineral materials
- powder products unaffected by frost
- provide good mechanical key for Armourcoat Polished Plaster and Armourcoat Armuralia P50
- can be used to level minor surface irregularities (up to 2 - 3mm maximum)
- completely non combustible as supplied or when applied
- contain no VOCs

3 Health and Safety

Armourcoat K124 Keycoat and K149 Fine Keycoat are powdered products and a dust mask should always be worn when mixing or handling them. Armourcoat K124 Keycoat and K149 Fine Keycoat contain hydrated lime and cement that can act as an irritant. Wear protective clothing specifically gloves and eye protection and if contact with skin occurs wash affected areas immediately with soap and water.

Armourcoat K124 Keycoat and K149 Fine Keycoats are noncombustible mineral products and do not give off any VOCs.

4 Suitable substrates

Armourcoat K124 Keycoat and K149 Fine Keycoat will adhere well to the following substrates:

- taped and jointed plasterboard already treated with a suitable primer
- cement render/cement stucco (damp down prior to application of Armourcoat Keycoats)
- Armourcoat AntiCrack

Highly absorbent surfaces such as GRG, freshly skimmed gypsum plaster and jointing compound should be primed and allowed to dry prior to the application of Armourcoat Keycoats.

5 Mixing instructions

- always wear a dust mask or respirator when mixing Armourcoat Keycoats
- pour 10.0 - 10.5 litres (a little over 2.5 US gallons) of clean water into a mixing bucket
- pour in the contents of one 25kg sack of Armourcoat Keycoat and mix with a mechanical mixer for 3 - 4 minutes or until a consistent lump free mix is achieved. Leave to stand for a further 5 minutes then remix for 20 - 30 seconds before use. When mixed correctly the material should spread easily without slumping

- where greater build thickness is required the water content can be reduced to about 9.5 litres (2.5 US gallons) per sack
- for situations that require greater adhesion Armourcoat Keycoats can be mixed with a gauging liquid of Armourcoat R13 resin combined with clean water at a ratio of 1:3
- when working in hot and dry conditions it is also advisable to add the Armourcoat R13 gauging liquid to the Armourcoat Keycoats. It will ensure the Armourcoat Keycoats are strong even if they dry prematurely without the cement hydrating. It will also reduce the amount of suction from the Armourcoat Keycoats giving a slightly greater working time

6 Application instruction

- apply the Armourcoat Keycoat to the wall in a continuous operation. The plaster should be applied to grain thickness over the wall and whilst it is still wet a nearly flat trowel should be passed over the surface with firm pressure to give a consistent surface texture without ridges or lines. Leave to dry. The finished surface should resemble coarse sandpaper
- when working in small enclosed areas with poor air circulation or in cold site conditions we would recommend the application of a second layer of Armourcoat Keycoat which when dry will improve the level of background suction. This second layer of Armourcoat Keycoat is applied once the first coat is either dry or semi dry
- in the event of using Armourcoat K124 Keycoat to fill minor surface irregularities mix the material to a stiffer consistency to avoid shrink back and mud cracking. Fill the hollow area with material to a maximum of 2 - 3mm and pull a rule or straight edge across to achieve a flat surface. Leave to dry overnight and then apply one further layer of Armourcoat Keycoat over the entire wall to provide a consistent surface ready for finishing.

7 Coverage rates

Armourcoat K124 Keycoat and K149 Fine Keycoat are supplied in 25 kg bags.

Coverage rates:

Armourcoat K124 Keycoat 0.8 -1.0 kg/m²

Armourcoat K149 Fine Keycoat 0.5 - 0.8 kg/m²

8 Storage

Store in good dry conditions between 5° - 25°C. The shelf life of Armourcoat Keycoats in unopened original packaging under correct storage conditions is 12 months from date of manufacture.

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