

## Product Data Sheet PDS5 Keycoat

### 1 Product Description

Keycoat is a natural mineral material composed of hydrated lime, marble and cement combined with additives to control working characteristics and adhesion.

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

### 2 Properties

- Natural mineral material
- Contains no VOC's
- Powder product unaffected by frost
- Provides good mechanical key for Armourcoat polished plaster and Armuralia
- Can be used to level minor surface irregularities (up to 2-3 mm maximum)
- Completely non-combustible as supplied or when applied

### 3 Health and Safety

Keycoat is a powdered product and a dust mask should always be worn when mixing or handling the product. Keycoat contains hydrated lime and cement that will act as an irritant. Wear protective clothing, gloves and eye protection, and if contact with skin occurs wash immediately with soap and water.

Keycoat is a non-combustible mineral product and does not give off any VOCs.

### 4 Suitable Substrates

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 Keycoat).
- 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 the Keycoat.

### 5 Mixing Instructions

Always wear a dust mask or respirator when mixing Armourcoat Keycoat.

Pour 10.0 – 10.5 litres (a little over 2.5 US Gallons) of water into a mixing bucket.

Pour in the contents of one 25kg sack and mix with a mechanical mixer for 3-4 minutes, or until you have a consistent lump-free mix. Leave to stand for a further 5 minutes and 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, the Keycoat can be mixed with a gauging liquid of R13 resin combined with water at a ratio of 1:3.

When working in hot and dry conditions it is also advisable to add the gauging liquid to the Keycoat and it will ensure the Keycoat is strong even if it dries prematurely without the cement hydrating. It will also reduce the amount of suction from the Keycoat giving a slightly greater working time.

### 6 Application Instructions

Apply the 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 Keycoat which when dry will improve the level of background suction. This second layer of Keycoat is applied once the first coat is either dry or semi-dry.

If the K124 Keycoat is to be used 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 2-3 mm, and pull a rule or straight edge across to achieve a flat surface. Leave to dry overnight and then apply one further layer of Keycoat over the entire wall to provide a consistent surface ready for finishing.

## 7 Coverage Rates

Keycoat and Fine Keycoat are supplied in 25 kg bags.

Coverage rates:

K 124 Keycoat 0.8-1 kg/m<sup>2</sup>

K149 Fine Keycoat 0.5 – 0.8 kg/m<sup>2</sup>

## 8 Storage

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

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**Armourcoat Limited**  
Morewood Close London Road  
Sevenoaks Kent TN13 2HU United Kingdom  
Tel: +44 (0)1732 460 668 Fax +44 (0)1732 450 930  
Email: [technical@armourcoat.co.uk](mailto:technical@armourcoat.co.uk)

web: [www.armourcoat.com](http://www.armourcoat.com)