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# Product Data Sheet PDS044: K40 Primer New Formulation

## 1 Product description

Armourcoat K40 Primer is a finely aggregated water based primer designed to reduce absorbency of substrates, even up suction and provide a good key to ensure proper adhesion for Armourcoat Polished Plaster, Armural, Armuralia, Istria, Spatulata and PPX.

## 2 Properties

- new improved formulation
- excellent alkali resistance
- water based product range with virtually zero VOC emissions and odour
- supplied ready for use on site
- now even lower splatter formulation
- finely aggregated for good mechanical key
- density 1.35kg/L
- solids content ~ 48%
- can be used externally

## 3 Health and Safety

Armourcoat K40 Primer is a non combustible water based product with low VOC content. It is non hazardous but in keeping with good working practices avoid prolonged skin contact. If contact with skin does occur wash affected areas immediately with soap and water. If coating dries on skin it may be difficult to remove.

## 4 Suitable substrates

Armourcoat K40 Primer can be applied to the following surfaces:

- plasterboard/drywall/sheetrock
- render board, such as Bluclad or Rendaboard
- jointing compound
- existing plaster
- previously decorated surfaces
- MDF
- GRG
- blockwork

For highly absorbent or friable surfaces we recommend the roller application of a coat of Armourcoat R13 Resin mixed with clean water in a 1:5 ratio to stabilise the surface prior to the application of the Armourcoat K40 Primer. From experience Thistle Multi Finish and all Universal one coat plasters are very absorbent. MDF can create staining and discolouration of plaster finishes if they are not correctly sealed. Armourcoat K40 Primer is not a stain blocking primer and therefore the application of Zinsser BIN primer prior to the application of Armourcoat K40 Primer is recommended. For any applications to MDF surfaces please consult SSS7.

## 5 Applying Armourcoat K40 Primer

Ensure the substrate is clean, dry and free from dirt and loose friable material.

Armourcoat K40 Primer can be applied with a roller, paint pad or brush straight from the tub. For highly absorbent substrates 2 coats of Armourcoat K40 Primer will be required. Allow the first coat to dry fully (approximately 2 - 4 hours under good drying conditions) before overcoating.

\* **Please note:** Good drying conditions referred to means good ventilation and air circulation. Using fans even in warm conditions will greatly accelerate drying. In very damp or humid conditions it will also help to use a dehumidifier. If heat is used it should not be directed at the finish and must not be damp heat as is created by gas burners.

## 6 Test data

### 6.1 Adhesion testing

Various substrates were coated with one coat of K40 Primer using a sponge roller and tested for adhesion according to BS EN ISO 4624. Where cohesive failure of the substrate occurred the adhesive strength is given as a greater than figure.

For EU Ecolabel ([www.ecolabel.eu](http://www.ecolabel.eu)) the adhesion of a pigmented masonry primer for exterior use should exceed 1.5MPa to merit a pass.

Sample	Adhesive Strength (N/mm <sup>2</sup> - MPa)
MDF (primed first with Zinsser BIN primer)	> 3.1
Gyproc Joint Filler	1.8
Bluclad Board	> 1.8
Rendaboard	> 3.5
Celcon Standard Aerated Concrete Block	> 1.9

Testing was carried out by an approved laboratory for testing compliance.

### 6.2 VOC testing

A sample of Armourcoat K40 Primer was tested for VOC content by an accredited American testing laboratory following procedures outlined ASTM D6886 "Standard test method for speciation of the low VOC content waterborne air-dry coatings by GC". A second sample was tested for VOC content by an accredited European laboratory following procedures outlined in ISO 11890-2 "Paints and varnishes. Determination of volatile organic compound (VOC) content".

Test Method	VOC (grams/litre)	VOC (Lbs/Gal)	Comments
ASTM D6886	< 5.0	< 0.04	Green Seal GS-11 (2013) and CARB (2016) limit: 100 g/L
ISO 11890-2	6.4		EU limit for this product (Cat A/g): 30 g/L (2010)

## 7 Coverage rates

Coverage rate is approximately 8 -12 m<sup>2</sup>/kg (80 - 120 ft<sup>2</sup>/kg)

One tub will cover approximately 90 - 140 m<sup>2</sup> (900 - 1400 ft<sup>2</sup>)

## 8 Storage

Store in dry conditions between 5<sup>o</sup> - 25<sup>o</sup>C. Protect from frost. Protect from sunlight and sources of direct heat. Keep container sealed when not in use.

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