

# abecote 436

## Clear epoxy seal or topcoat

### DESCRIPTION

**abecote 436** is a two-component, solvent-borne, polyamine-cured epoxy.

### USES

**abecote 436** is a sealer for porous cementitious substrates. Also, as a clear seal coat for **abescreed**, **abeflo** and **abecote 400 Hi - build**.

### FEATURES & BENEFITS

- Good sealing characteristics.
- Easy to apply.
- Non-toxic when cured.

### SURFACE PREPARATION

Cementitious substrates only.  
Surface preparation:  
The substrate must be dry before application. Moisture content tests must be conducted prior to application of the priming system. Maximum moisture content should be between 4-5%. (eg Protimeter Survey Master or equivalent) or  
Dynamic Calcium Chloride moisture "weight gain" over 24 hours  
or  
(a practical overnight "plastic sheet test" is also advisable approx. 1m<sup>2</sup> masked down on surface)

### BONDING / PRIMING

Not required.

### COVERAGE

10 to 12 m<sup>2</sup> / l on smooth surfaces.

PROPERTIES OF WET MATERIAL	
Mixing ration	4 base to 1 activator by volume
Density (typical)	0,96
Flash point	26° C

Consistency	Low viscosity liquid
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PROPERTIES DURING APPLICATION	
Pot life	8 hrs / 5 l @ 25° C
Induction period	Allow to stand for 20 minutes in shade after mixing
Volume solids (typical)	32%
Recommended average dft per coat	25 µm
Theoretical cover for above dft	12 m <sup>2</sup> / l on smooth surface
Approx. cover for estimating purposes	10 m <sup>2</sup> / l
Recommended number of coats	Primer – 1 or 2 Sealer – typically one (more will render system glossy and slippery)
Drying time @ 25° C	Touch dry – 2 hrs Hard dry – 12 hrs Full cure - 7 days
Overcoating time @ 25° C	Minimum – 12 hrs Maximum - 48 hrs
Application temperature range	+10°C to +40°C
Do NOT apply	If humidity in excess of 85%
Do NOT apply	If surface is less than 2° C above dew point

PROPERTIES OF DRY FILM	
Maximum service temperature	- Dry 120° C - Immersion 70° C

### MIXING

Stir the contents of each container. Add activator to base and stir together for at least five minutes using a flat paddle. It has been found that mechanical mixing gives better dispersion than manual mixing. A suitable mixing method would be a slow-speed electric drill (approximately 200 r/min) fitted with a paddle. The mixed material must be left to stand for 20 minutes prior to application. If only part of a kit is to be used add one volume of activator to 4 volumes of base. Measuring must be accurate and separate stirrers and containers used for proportioning each component.

### APPLICATION

**abecote 436** may be applied by brush, short-fibre roller or airless spray. Spraying would be through a tip of approximately 250 µm.  
**abecote 436** should not be applied if the ambient temperature is below 10°C. The curing reaction will not proceed at low temperature. If surfaces are not at least 2° C above the dew point a film of condensed moisture may be present. This will undermine adhesion of the coating.

### CLEANING

**abe super brush cleaner** before curing.

### PROTECTION ON COMPLETION

Protect surface against traffic and spillage until cured. Most epoxies chalk and degrade in extensive sunlight.

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## Technical data sheet

abe Construction Chemicals (Pty) Ltd. P.O. Box 23053, Isipingo, 4110, South Africa. 7 Wilcox Road, Isipingo, 4110 Tel. (031) 913 5400

## MODEL SPECIFICATIONS

### **Two-component solvent based epoxy resin floor coating.**

The coating will be **abecote 436**; a two-component epoxy resin coating system applied in accordance with **abe Construction Chemicals'** recommendations.

## PACKAGING

**abecote 436** is supplied in 1 l and 5 l yield metal containers.

## HANDLING & STORAGE

All **abecote 436** related products have a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

## HEALTH & SAFETY

Wet **abecote 436** is toxic and flammable. Ensure the working area is well ventilated during application and drying. Avoid flames in vicinity. Avoid inhalation of dust and contact with skin and eyes. Suitable protective clothing, gloves, eye protection and respiratory protective equipment should be worn. The use of barrier creams provides additional skin protection. If contact with skin occurs, wash with water and soap. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought.

Cured **abecote 436** is inert and harmless.  
When transporting liquids and semi liquids by aircraft, ask for material safety data sheet.

## IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **abe Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **abe** has no direct or continuous control over where and how **abe** products are applied - accept any liability either directly or indirectly arising from the use of **abe** products, whether or not in accordance with any advice, specification,

recommendation, or information given by the company.

## FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **abe Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.

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