



a.b.e.[®] Construction Chemicals **abe.[®]cote 337** Water Dispersed

WATER-DISPERSED EPOXY EMULSION PAINT SMOOTH FINISH

DESCRIPTION

abe.[®]cote 337 is a two-component, solvent-free, water-dispersed, polyamide-cured epoxy.

USES

abe.[®]cote 337 is a protective, decorative and oil-resistant coating for: cementitious, masonry and asphaltic surfaces, floor coatings, as a concrete curing membrane, and an economical primer for **Hi-build/abe.[®]flo**.

AREAS OF APPLICATION

Areas where **abe.[®]cote 337** may be used on both floors and walls are:

- Factories and warehouses
- Parking facilities
- Shopping areas
- Dairies and milking parlors
- Nuclear decontaminable areas

Non-skid surfaces:

A 50g container of fine aggregate is available on request. Mix well into 5 liters of mixed base and activator and apply as the final coat.

ADVANTAGES

- May be applied to damp surfaces
- Easily over coated at any time for maintenance
- Tough protective and decorative coating
- Oil resistant
- Petrol resistant
- Economical

COLOUR

CAUTIONARY NOTE:

In order to limit minor colour variations from batch to batch, it is advisable to use product from the same batch on large open areas. Batches may be factory blended on request.

PROPERTIES OF WET MATERIAL	
Mixing ratio	1:1 by volume
Relative Density (typical)	1,17 g/cm ³
Colour	Base: Coloured Activator: Translucent yellow Mixed: Chestnut Brown, Chocolate Brown, Lime Stone, Havana Beige, Sahara Beige, Vanilla Cream, Soft Grey, Sea Grey, Ivory Silk, Green Ivy and Burnt Red
Finish	Semi-matt
Flash point	None
Dilution	Up to 10 - 15% water in first coat
Consistency	Low viscosity liquid

PROPERTIES DURING APPLICATION	
Pot life @ 20°C	90 min/5L
@ 30°C	45 min/5L
Volume solids (typical)	40% - varies slightly according to colour
Coverage for above dft	8 - 10m ² /L on smooth surface
Wet film thickness at above	100 µm
Recommended no. of coats	Two minimum
Drying time @ 25°C	Touch dry: 4 - 6 hrs Hard dry: 24 hrs Full cure: 3 days
Over coating time @ 25°C	Minimum: 4 - 6 hrs Maximum: None
Application temp range	5°C to 35°C
Fire resistance of wet film	Non-flammable

PROPERTIES OF DRY FILM

Maximum service temperature	Dry $\pm 60^{\circ}\text{C}$
Minimum service temperature	Suitable for cold room use
Adhesion	Concrete substrate failed 3,7 MPa under tensile stress
Bond strength	Passes cross hatch test – 2 mm wide cuts
Impact resistance	Five impacts of 1 kg dropped 2 m
Weathering resistance	Chalks on exposure to ultra-violet light or sunlight
Scrub resistance	39 000 cycles under 1,5 kg load over 2 500 mm ² area using a 2,5% synthetic detergent solution at ambient temperature – no failure
Nuclear decontamination	Details available on request

CHEMICAL PROPERTIES OF DRY FILM

Sulphur resistance	No change after 21 days in 1% by mass sodium sulphate
Water resistance	Withstands 18 months immersion test but is not recommended for continuous immersion service
Solvent resistance	Withstands petrol, mineral and crude oils, 50% ethyl alcohol – 12 months immersion test but is not recommended for continuous immersion service
Chemical resistance	Withstands 40% caustic soda, 5% lactic acid, 5% acetic acid, vegetable and animal fats. Not recommended for continuous conditions

SURFACE PREPARATION

CONCRETE – Surfaces must be clean and mechanically sound and free of laitance, nibs, dust, grease and oil. Wet abrasive grinding is generally used on concrete floors. Any holes should be filled with an adequate mortar, e.g. sand/cement gauged with **dura.®latex** and laid into a **dura.®latex**/cement/sand slush. Surfaces do not need to be dry as long as they are free of standing water. Bone-dry surfaces must in fact be lightly dampened with water to prevent too rapid suction of water from the coating.

BONDING/PRIMING

It is not usual to apply a primer under **abe.®cote 337**. On porous surfaces dilute the primer coat with up to 10 - 15% clean water and pre-dampen the surface to obviate suction.

MIXING

Pre-stir base and activator. Add the entire base to the activator and stir for at least 5 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.

POT LIFE

Mixed **abe.®cote 337** has a pot life of some 90 minutes at 20°C. While unused material may still appear workable after this time, it must under no circumstances be used.

COVERAGE

8 - 10m²/litre on smooth surface.

APPLICATION

Mixed **abe.®cote 337** may be applied to the dampened substrate by water pre-moistened brush or roller or by airless spray using a $\pm 500 \mu\text{m}$ tip. Ideally any first coat should be applied by brush. As soon as a coat is touch dry, a subsequent coat may be applied. Unless the treatment is required to provide chemical resistance, an additional two coats are normally sufficient. Chemical resistant work or floors always requires three coats. Drying time will depend upon temperature, humidity and ventilation. If working indoors or in confined spaces, ensure adequate ventilation. Outdoors, the wet film is liable to wash off in rain or be damaged by frost.

abe.®cote 337 may be over coated at any time. Ensure that the surface is clean and free of contamination and chalking. Over coating, without intercoat adhesion problems, may be carried out with **abe.®cote 337** itself or solvent-borne or solvent-free epoxies or other compatible coatings.

USE AS A CONCRETE MEMBRANE

abe.®cote 337 can be applied to green concrete as a curing membrane, after which it becomes a protective and decorative coating. In this application it acts as protection during subsequent construction, this also applies to floors.



When final decoration and protection of the surface is due for application, the surface need only be suitably cleaned and repaired to take whatever final treatment may be specified. Consult **a.b.e.®s** Technical Division for advice.

CLEANING

During brief interruptions of work, equipment should be immersed in clean water. At major stoppages it must be washed with soap and water or with **abe® super brush cleaner**. Cured **abe.®cote 337** is almost impossible to remove.

PROTECTION ON COMPLETION

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

MODEL SPECIFICATION

Two component solvent-free water dispersed epoxy coating.

The coating will be **abe.®cote 337**, a two-component solvent-free water dispersed epoxy coating applied in accordance with **a.b.e.® Construction Chemicals'** recommendations.

PACKAGING

abe.®cote 337 is supplied in 5 litre yield metal containers.

HANDLING & STORAGE

All **abe.®cote 337** related products have a shelf life of 24 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

When wet **abe.®cote 337** is toxic. Ensure working area is well ventilated during application and drying. 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. When cured **abe.®cote 337** is inert and harmless.

IMPORTANT NOTE

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



a.b.e.® is an ISO 9001:2008 registered company
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