



a.b.e.® Construction Chemicals

abe.® seal PU Polyurethane

POLYURETHANE FLOOR SEALER

DESCRIPTION

abe.® seal PU is a solvented one pack moisture curing polyurethane floor sealer.

USES

abe.® seal PU is used for sealing concrete, screeds, tiles (including terrazzo) and paving slabs. May also be used for sealing wooden floors.

ADVANTAGES

- Effective as dust-binding impregnant and as sealer for cement floors and other porous substrates.
- Good resistance to alkalis.
- The fully cured polyurethane film is characterized by remarkable hardness and flexibility and has good resistance to water and chemicals, though it tends to yellow under light.
- Excellent abrasion and scuff resistance.
- Fast drying: each coat tack-free in 2 hours.
- One pack, easy to apply.

COLOUR

Clear.

SURFACE PREPARATION

The surface is to be prepared by enclosed light shot blasting or power grinding. All residues must be removed to provide a dry, dust-free, open textured surface free of dust, grease, oil and contaminants.

APPLICATION

Spread with a squeegee and finish with a mohair roller. If high penetration occurs, leave for 1-2 hours to dry and cure and then repeat coat. Second coat: Apply as per first coat, within 2 to 24 hours of first coat. If not applied in the first 24 hours, the floor must be lightly sanded to provide a physical key for adhesion and then the second coat can be applied.

NOTE: To ensure satisfactory inter-coat adhesion, coating intervals should be less than 24 hours.

PROPERTIES DURING APPLICATION

At 20° C and 50% relative humidity

Tack-free time	2 hours
Light traffic	12 hours
Full traffic	24 hours
Theoretical Coverage	10m ² /L
Packaging	5L and 25L single pack

COVERAGE

See theoretical coverage above. For practical coverage, a test is required on substrate under treatment, as coverage can vary according to porosity.

CHEMICAL PROPERTIES OF DRY FILM

abe.® seal PU is applied as a thin film that can be damaged, exposing the substrate. For this reason it should not be primarily relied upon as a chemically resistant barrier.

Duration of test: 12 months/reagent	Surface deterioration	Noticeable deterioration (days)
Distilled water	None	-
Tap water	None	-
Sea water	None	-
Sulphuric acid, 10%	None	-
Hydrochloric acid, 10%	None	-
Nitric acid, 10%	None	-
Acetic acid, 10%	Small blisters	10
Formic acid, 10%	Small blisters	8
Lactic acid, 25%	None	-
Citric acid, 10%	None	-
Tannic acid solution	None	-
Linseed fatty acid	None	-
Sodium carbonate (20% solution)	None	-
Common salt (10% solution)	None	-
Sugar solution (30% solution)	None	-
Caustic potash (10% solution)	None	-
Ammonia, 10%	Blisters	20
Chlorine solution (3% free chlorine)	None	-
Hydrogen peroxide, 10%	None	-
Petrol	None	-
Cresol	Destroyed	5
Xylene	None	-
Methylene chloride	Destroyed	-
Acetone	Softened	10
Ethyl alcohol	None	-

CLEANING

abe® super brush cleaner before the product has cured

PROTECTION ON COMPLETION

Protect surface against traffic and spillage until cured.

MODEL SPECIFICATION

One-component solvent-based clear polyurethane floor sealer. The floor sealer will be **abe.®seal PU**, a one-component solvent-based polyurethane floor sealer applied in accordance with **a.b.e.® Construction Chemicals'** recommendations. Installation should be by an approved and trained applicator.

PACKAGING

5L and 25L single pack

HANDLING & STORAGE

All **abe.®seal PU** related products have a shelf life of 12 months if kept in a dry, store in the original, unopened packs at 10 - 35° C. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced. Once the container has been opened, the material must be used. Never part-use a container and then re-seal.

HEALTH & SAFETY

abe.®seal PU is alkaline and should not be allowed contact with skin and eyes. When wet, **abe.®seal PU** is toxic and flammable. Ensure 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. When cured **abe.®seal PU** is inert and harmless.

NB: 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 **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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