



KwikSeal E100 EPOXY Primer Systems

KwikSeal Waterproofing Solutions Pty Ltd

Suppliers & Specifiers of:

KWIKSEAL PLURAL POLYURETHANE

KWIKSEAL PLURAL POLYUREA

SPRAY & HAND APPLIED

MEMBRANE SYSTEMS

DESIGN:

CONSULTANCY:

KwikSeal E100 Epoxy Primer

Epoxy Primer for KwikSeal Hand Applied Membrane Systems

Product Description

KwikSeal E100 combines the excellent adhesion and toughness of epoxy resins with the ease of application of water based systems. **KWIKSEAL E100** has excellent adhesion to damp or dry surfaces, far superior to conventional paints. **KWIKSEAL E100** may be applied to concrete, asbestos cement (fibro), brick, plaster, stone and cement block.

Uses

TYPICAL APPLICATIONS:

- Treatment of rising damp, as a low water vapour transmission coating.
 - As a waterproofing barrier to prevent the ingress of water through below grade concrete or masonry structures. ie. basements-tunnels-lift-wells.
 - To prevent water seepage/dampness penetration through to the interior of walls and floors.
 - As a waterproof barrier/seal coating prior to over-coating with other coatings.
 - As a waterproof barrier over freshly laid (hardened) concrete, prior to the installation of conventional carpet and tile adhesives.
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PRODUCT SPECIFICATION

TYPICAL PROPERTIES:

Colour:	Grey (mixed product)	(Part A is clear; Part B is grey)
Mixing Ratio:	1:1 (Part A:Part B) by volume	
Pot Life:	1 hour @ 25°C + 50% R.H.	
Time between coats:	2-24hours @ 25°C + 50% R.H.	
Initial Cure/Set:	12-24hours @ 25°C + 50% R.H.	
Full Cure:	7 days @ 25°C + 50% R.H.	

Benefits

- Water based - easy clean up using water
- Non-flammable - low odour - easy to apply
- Economical
- Excellent adhesion to dry and damp surfaces including freshly laid (hardened) concrete.
- Cured membrane will withstand hydrostatic pressure.
- Environmentally friendly - safe to use in sensitive locations.
- Good resistance to a wide range of chemicals.
- Can be overcoated with most decorative/industrial finishes and adhesives.
- Although typically used on concrete/masonry substrates, this product is epoxy resin based making it suitable for use on metal surfaces as well as masonry.
- Can be applied over Bituminous surfaces.
- Can be applied to damp surfaces.

Coverage:

To achieve an effective waterproof barrier, **KWIKSEAL E100** must be applied at a total rate of 1.5 square metres/litre. Generally: 2 uniform coats at a rate of 3.0 square mtrs/litre per coat. In the event the 2 coats are insufficient an additional coat will be necessary to achieve the required film build. As a Primer in situations where waterproofing is not a priority, a single application at the rate of 4 square mtrs/litre will suffice. Values provided above are typical average figures achieved in laboratory testing. Actual values achieved in on-site conditions may vary slightly.

10 kg / 20 kg pre-weighed kits / 430 k kits

Application Directions

ALL SURFACES SHOULD BE PREPARED IN ACCORDANCE WITH KWIKSEAL[®] SPECIFICATIONS. IF THERE ARE ANY DOUBTS ABOUT SUITABILITY, A SMALL TRIAL AREA SHOULD BE APPLIED.

SURFACE PREPARATION

For concrete use a wet or dry abrasive for blasting to remove surface defect – some repair of the concrete may be required and patch of joints and cracks with a suitable filling compound.

Apply as one coat from the container with brush, roll or airless spray equipment. The product is already very low in viscosity and should not require any further dilution. The level of primer should be an even surface for the optimal adhesion to the substrate and this included not allowing the primer to pool on application.

Coverage rate depends on concrete porosity but typically (for porous concrete) about 4m²/Kg of product.

Surface preparations

All surfaces must be structurally sound, free of any coatings, adhesives, grease, oil, form release agents, curing compounds, dirt/dust and any other surface contaminants.

Non-structural cracks, holes and any other surface deformities to be rectified. Prime the surface with **KWIKSEAL E100**, while still tacky fill voids with a mortar made from one part **KWIKSEAL E100** mix, two parts sand/cement mix.

Leave at least two hours before over-coating with KWIKSEAL E100. Should sanding be required leave a minimum of 12 hours and allowed to cure prior to the application of KWIKSEAL E100.

Efflorescence must be removed, either by high pressure cleaning or a 5% hydrochloric acid solution.

Although **KWIKSEAL E100** may be applied to a damp surface, do not apply to surfaces having free water. Very dry, porous surfaces must be dampened with a fine mist of water.

Mix each component individually to a homogeneous blend.

Thoroughly mix the two components in the ratio of **1:1** by volume (equal portions Parts A&B) until a homogeneous blend is achieved. Avoid excessive and high speed blending. Mix only the amount of product to be used within the pot life.

KWIKSEAL E100 may be applied by brush, roller or spray; or either of the following combinations, squeegee/roller, broom/roller.

On dry, porous surfaces the first coat may be thinned with up to 10% fresh, clean cold water. To ensure optimum performance, thinning of additional coats should be avoided.

Horizontal: Spread the material using a squeegee or stiff nylon broom to achieve coverage and finish with a long nap roller.

Vertical: Apply product by roller or spray. Several coats may be needed to achieve the required film build.

The product will be touch dry in approximately 30 minutes (under normal conditions) and may be overcoated after 2 hours drying.

POT LIFE:

Designed to be quick drying for a water-based system and pot life at 25°C is around 30 minutes only. You can add up to 10% water if it thickens but do not mix more than you can use in 30 minutes.

CLEAN UP:

Wash all equipment with clean water immediately after use. Product once hardened can only be removed mechanically.

LIMITATIONS:

Do not apply if rain is imminent or when temperatures are below 10°C or above 35°C, or in situations where the relative humidity is greater than 85%.

KWIKSEAL E100 is not classified as a trafficable membrane nor is the product suitable for use over moving cracks. Although KWIKSEAL E100 prevents the ingress of liquid water, the coating is breathable and will allow the transmission of water vapour. In poorly ventilated situations this vapour transmission may lead to the presence of mildew. Do not overcoat with impervious coatings, coverings or timber flooring.

SAFETY DATA:

KWIKSEAL E100 is non flammable and classed as non-hazardous.

UN-NUMBER: N/A HAZCHEM CODE: N/A

DANGEROUS GOODS CLASS & SUBRISK: N/A

POISON CODE: N/A

May cause sensation and be irritating when in contact with skin and eyes. Wear suitable protective clothing, gloves and eye protection. In the event of contact, wash immediately with soap and water. Refer to the Material Safety Data Sheet for further information. Under no circumstances should applications be carried out in damp weather conditions or if rain is forecast.

Estimating Data

90 > 100 m² / 10 kg kit on concrete

Storage

In delivered containers @ 5°C – 30°C

Shelf Life

Shelf life for **KwikSeal E100** in its original containers is 12 months. Always store closed containers in cool, ventilated and dry location, away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 5 degrees Celsius or above 35 degrees Celsius.

Health & Safety / Handling Precautions

The components are sensitive to humidity and should always be stored in sealed drums and resealed with nitrogen after opening. The

recommended storage temperatures are 15-25°C and keep away from all sources of heat and ignition sources as the primer is flammable. If the drum is left open to the atmosphere the material may go cloudy, discolour and surface skin – resultant in moisture or contamination. When opening these drums extreme care must be exercised in releasing the internal pressure. Before handling these chemicals please consult the Material Safety Data Sheet. Contact with the skin or eyes must be avoided and avoid breathing in vapour or spray. Adequate ventilation is required (see the MSDS) with approved engineering controls and personal protective equipment. Safety goggles, protective gloves and approved respirators should be worn whenever handling chemicals. In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. If nose, throat or lungs become irritated from inhaling vapours, remove exposed person to fresh air. Call a physician.

Before using the product refer to the Material Safety Data sheets.

Statement of Responsibility

The technical information and application given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or state Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

Note

The information in this data sheet does not imply any warranty. Field service where provided, does not constitute supervisory responsibility. Suggestions made by KwikSeal either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KS are responsible for carrying out procedures appropriate to a specific application. Furthermore, no warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, Agents or Distributers as conditions of use and any labour involved beyond our control.

Contact Details		
Web: www.kwikseal.com	Sales: Contact Email: info@kwikseal.com.au Mobile: +61 499 244 033	

