

**DESCRIPTION**

**PENNSEALER EE** is a single component, waterbased, cationic, epoxy sealer. Specially designed urethane modified ATV epoxy polyelectrolyte emulsion offers unique features to this sealer, which upon cure, produces a tough, durable and protective finish to the treated surface.

**FEATURES**

Breathable to allow vapour transmission.

Reduces chloride ion penetration.

Reduces salt scaling damage.

ATV cure features allow fast chemical reaction with chloride (and other negative ions) which enables sealer to react with salts.

Excellent adhesion to concrete, asphalt (including bituminous mastic), wood and other common building materials.

Provides a semi-gloss, high friction coefficient finish.

Low application odour.

Single component low viscosity allows for simple, safe application.

Easily cleaned and maintained.

Excellent penetration into cracks even hairline and micro cracks.

**USES**

**PENNSEALER EE** offers protection to concrete, asphalt covered decks, masonry walls and other surfaces, from ingress of chloride ion, water absorption, freeze thaw scaling, damage from petroleum products and other contaminants.

**PENNSEALER EE** performs excellently as a dustproof abrasion resistant sealer for exposed concrete floors including industrial and commercial applications.

**PENNSEALER EE** reacts in the presence of salt deposits in the crack to form an instant and watertight seal through its unique ATV cure mechanism.

**NOTE:** ATV cure denotes **Ambient Triggered Vulcanization concept**. PennKote's unique curing system built into **PENNSEALER EE**. This curing system uses chlorides and other chemicals and salts found within the concrete deck to initiate the cure and trigger the vulcanization process.

**PENNSEALER EE** may also be used as a tie coat for aggregated epoxy urethane systems.

**USES**

**PENNSEALER EE** can also be used as a surface conditioner, or reactive primer to treat concrete, masonry, metal and wood prior to coating with a subsequent compatible system.

**LIMITATIONS**

Being an emulsion, **PENNSEALER** must be kept from freezing and can not be applied at temperatures at or below freezing point.

**PHYSICAL PROPERTIES & DATA**

<b>Solids (clear)</b>	30%
<b>Solids (grey and black)</b>	20%
<b>Ph. at 25°C</b>	6.8



<b>Brookfield Viscosity cps</b>	30 - 120 cps
<b>Penetration</b>	Less than 1 mm
<b>Resistance</b>	Excellent resistance to salts, acid, alkali, fungi, bacteria and most common solvents.
<b>Min/Max. Service Temperature</b>	(-25°C to 140°C) (-17°F to 284°F)

**COVERAGE**

<b>Surface type</b>	<b>Rate of Application</b>	<b># of coats</b>
Intermediate concrete slab	200sq.ft/gal/per coat	2
Slab on grade	200 to 300 sq.ft/gal	1
Reinforced concrete vertical	200 to 300sqft/gal/per coat	2
HL3 topping	160 to 180 sq.ft/gal/per coat	2
Mastic topping	200 to 300 sq.ft/gal/per coat	2
Aggregated surface	100 to 150 sq.ft/gal	1

**SURFACE PREPARATION**

Remove all loose material, dust, dirt and grease. Surface must be clean and reasonably dry. The presence of moisture in the substrate (such as in concrete not fully cured) will not be detrimental to the performance of this product. Consult PennKote for details not outlined in this section.

**APPLICATION**

**PENNSEALER EE** can be sprayed, rolled or applied by squeegee brush. Conventional airless spray or low pressure sprayers may be used. Squeegee brushes are available from PennKote Limited.

**PENNSEALER EE** is a single component product and requires no mixing or blending. It may however, be advisable to stir each unit opened prior to use to ensure no settlement has occurred or separation of the material due to prolonged storage.

**First Coat:** Pour material onto floor and work into surface using a power brush or roller. Be sure to saturate the floor using typical "floor coat" methods. Avoid excessive puddling or ponding. Care should be taken to ensure no loss of material through open drains or joints.

**Second Coat:** When a second coat is required, apply by power brush or spray or roller. Avoid puddling or runs.

**CURING & DRYING**

Allow material to cure until dry at ambient and surface temperatures of 5°C or higher. Curing times will be affected by relative humidity, temperature and air flow. The following times will vary with conditions present on job at time of application, applied at standard coverage rates.

Tack Free Film	4 to 6 hours
Light Traffic	24 hours
Normal Traffic	48 hours or less



Full Cure	4 to 7 days
<b><u>CLEAN-UP</u></b> Uncured material can be cleaned using light soap and water. Cured material is best removed by Xylol or mechanical means.	
<b><u>STORAGE &amp; HANDLING</u></b> Settling may occur. Stir before use. Keep containers tightly sealed. Store in temperature range of 2°C to 30°C. (35°F to 90 °F). <b>Keep from Freezing.</b>	
<b><u>SHELF LIFE</u></b> Indefinite in original sealed properly stored container. Some settling may occur, stir before using.	
<b><u>PACKAGING</u></b> 1 gallon, 5 gallon and 45 gallon drum.	
<b><u>PRECAUTIONS</u></b> Keep out of reach of small children. This material contains a small amount of volatile solvent. Use in ventilated areas. Avoid exposure, including direct contact with skin. Some people may be allergic or sensitive to chemicals contained in this product. Do not swallow or inhale. Should any adverse effects occur, remove subject from area immediately. Wash any contaminated skin with water and introduce fresh air. Contact a physician. Additional information contained on <b>WHMIS</b> and Material Safety Data Sheet. Contact PennKote Limited for further information.	
<b><u>TECHNICAL ASSISTANCE</u></b> Please contact PennKote for specific details and/or data not outlined in this literature. PennKote will provide technical assistance from preliminary design through to product application upon request.	
<b><u>WARRANTY</u></b> PennKote Ltd. warrants its products against manufacturing and material defects. PennKote will, for a period of two years from the date of application, supply replacement material for product proven to be defective. This warranty is in lieu of any and all other warranties expressed or implied. Pennkote Ltd. and any Distributor or Retailer of this product accept no liability for incidental or consequential damage due to defective material or improper installation. The user shall determine the suitability of this product for intended use.	