

TECHNICAL DATA & APPLICATION SHEET



E-SEAL

FOR PROFESSIONAL USE ONLY

PACKAGING

20 Litre Plastic Cube

DESCRIPTION

E-SEAL is a penetrating proprietary catalyzed potassium silicate solution that permanently fuses within porous substrates of concrete, brick, stone, and mortar to significantly increase surface strength, combat freeze/thaw damage, and limit penetration of stains and damaging impurities such as oil, gas, grease, and salt.

E-SEAL reduces dusting, retards mold and mildew, restricts efflorescence and hydrostatic moisture, and imparts waterproof characteristics. E-SEAL is breathable with minimal impact to traction coefficient. E-SEAL exceeds test criteria for ASTM C156, ASTM C309 and ASTM C1315 for curing new concrete.

E-SEAL creates a cross-linked insoluble methyl-silicone internal membrane that will wear away only if the substrate itself wears away below sealer penetration. In addition to being a powerful exterior sealer, E-SEAL leaves no topical residue and is an ideal protective primer to enhance the appearance and lifespan of topical coatings and floor treatments.

CHEMISTRY OF SILICONATE

SILICONATE:

- Organic (contains carbon)
- Medium viscosity (moderate penetration)
- Hydrophobic (repels water)
- Oliophobic (repels oil)
- Chemical Process – forms cross linked methyl-silicone resin (internal membrane)
- Common Function – sealing porous concrete, brick and stone and curing new concrete

AREAS OF USE

E-SEAL combats all concrete deterioration mechanisms specified by major concrete authorities:

- Freeze/Thaw • Corrosion • Salt
- Alkali Reaction • Abrasion

Sealing residential and commercial structures:

Roads, driveways, parking decks, sidewalks patios, basements.

Masonry products:

Pavers, block, clay brick, artificial brick, natural stone, artificial stone, mortar, stucco.

Architectural Features:

Countertops, mantels, furniture, ponds, fountains, and statues.

- Horizontal or vertical applications.
- Compatible with most glues or topical coatings.
- Curing new concrete.

APPLICATION

MATERIAL SAFETY DATA SHEET MUST BE READ BEFORE OPENING THIS PRODUCT.

E-Seal is a deep-penetrating sealer. The surface must be clean and porous enough to allow penetration into the substrate. Surfaces should be clean and free of dirt, debris, mildew, oil, grease and other contaminants.

Existing Concrete

E-SEAL is a penetrating sealer. Always determine porosity prior to application (especially on dark surfaces). Surface must be porous and free of loose debris, mildew, topical oil, paint or other surface coatings. Surface should be dry (no standing water). No mixing is required. Do not apply below 0°C or above 40°C. Apply uniformly with roller or low pressure sprayer. Specific coverage rate is based upon substrate porosity. Product should create a wet surface sheen and absorb within 1 minute without puddles. Puddles should be immediately dispersed as excessive application may result in white residue which will not affect sealer performance and generally dissipates over time or power washing. Wash application materials with warm water. Generally, only one application is required.

Curing New Concrete

For curing new concrete apply E-SEAL after all bleed water is gone, finishing is complete and the concrete will withstand the weight of a person and not be marred. Apply uniformly with low pressure sprayer. Specific coverage rate is based upon substrate porosity. Actual application rate based upon porosity and absorption. Product should create a wet surface sheen and absorb within 1 minute without puddles. Newly poured concrete should not be subjected to rain or other sources of water prior to obtaining surface hardness (surface cannot be marred) which may be highly variable based upon temperature and humidity (2- 12 hours).

Colour

E-Seal has a water-clear appearance and may occasionally slightly darken concrete or pavers.

USAGE RATE

4-7m² Per 1 LT

*Coverage Rate for estimating purposes only. Application rate based upon porosity and absorption. Always test absorption prior to application. When properly applied product should create a wet surface sheen and absorb within 1 minute without puddles. Immediately disperse puddles. Excessive application may result in white residue which will not affect sealer performance and generally dissipates over time or power washing.

DRY TIME

Dry to touch 1 - 3 hours**

Traffic 3 – 5 hours**

**Drying times for estimating purposes only.

SPECIFICATIONS

BOILING POINT	100°C
VAPOUR PRESSURE	20C/68F water
SOLUBILITY	Excellent
APPEARANCE AND ODOUR	Clear – Slightly amine
EVAPORATION RATE	Similar to water
SPECIFIC GRAVITY	(H2O-1):1.1 TO 1.3 @ 20°C
% VOLATILE BY VOLUME	8 g/L
PH	11.5

LIMITATIONS

is designed to work only on porous masonry substrates and is not intended for asphalt and may etch glass, vinyl, and metal. Avoid contact with eyes and skin. Sealer may be damaged if frozen prior to use. Not intended to seal cracks of more than 1/16 inch. The Company shall bear no liability, other than replacement of defective product. The Company specifically does not warranty specific performance results or compatibility with products manufactured by others. A small test must be conducted prior to application. Based upon this test, the purchaser shall determine for themselves the suitability of this product for the intended use.

STORAGE

On-Crete Aust. Pty Ltd recommends storage in a cool, well ventilated space away from heat sources. Keep tightly lidded. Keep away from reducing agents and strong oxidizing agents. See State and Federal Regulations as to storage.

SHELF LIFE

2 Years in un-opened container stored as recommended. After this time product should be checked to ensure suitability for use.

DISPOSAL

Contaminated absorbent to be disposed of in a secure land fill in accordance with local bodies , state and or federal authorities.

PRODUCT WARNING

On-Crete Australia Pty Ltd has no control over the use or storage of this product and therefore does not accept any liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesmen and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. This product is warranted to be of uniform quality within the manufacturer's tolerance. This manufacturer has no control over the use or misuse of this product, therefore no warranty rests or implied, is or can be made either as to the effects of such use. The manufacturer's obligations shall be limited to replacing product proving to be defective.