

ENGINEERED SOLUTIONS - DATA SHEET

CEMSEAL

PENETRATING SILANE – SILOXANE TREATMENT

**USES:**

A clear penetrating hydrophobic treatment that protects concrete and masonry from both water and chloride intrusion whilst still permitting water vapour transmission (breathability).

ADVANTAGES:

- Reduces water and chloride intrusion.
- Deep penetration into substrates.
- Non-staining.
- Inhibits mould growth.
- Increases freeze thaw resistance.
- Minimises efflorescence.
- Chemically resistant to ice melting compounds, fuels, oils and atmospheric contaminants.
- Allows concrete to breathe (vapour permeable).

DESCRIPTION:

A low viscosity silane-siloxane system which penetrates deeply into porous substrates and then reacts to produce a bonded hydrophobic lining to the pores. This treatment significantly reduces absorption of water and water borne salts but still permits passage of water vapour. The treatment does not produce any discolouration of the substrate and excellent resistance to weathering.

PROPERTIES:**TYPICAL PERFORMANCE PROPERTIES OF CEMSEAL:**

Reduction in water absorption 82% at 28 days
 Moisture vapour transmission 210 g/m²/day
 Density approx 0.8
 Flashpoint approx 36°C
 Application Temp above dew point
 Reduction in chloride ion penetration 90% at 28 days.

CHEMICAL RESISTANCE:

CEMSEAL is resistant to all normal ice melting compounds, petrol, oil and atmospheric contaminants (car exhaust fumes/industrial exhaust).

INSTRUCTIONS FOR USE:**SURFACE PREPARATION:**

Surface should be dry and must be free from oil, grease, loose particles, decayed matter, moss, algal growth and curing compounds. For maximum penetration grit blasting, water blasting or some mechanical means of surface preparation is recommended. Water blasting or an acid wash should be used for the removal of moss or algal growth. Rinse off with liberal quantities of clean water and allow to dry. Application to a damp substrate will reduce the penetration and effectiveness of CEMSEAL.

Protect plants, grass, asphalt, bitumen, plastics and all painted surfaces during preparation and application.

APPLICATION:

DO NOT allow CEMSEAL to be contaminated with water.

CEMSEAL should be applied in two flood coats by low pressure spray direct from the can and without thinning. Ensure that at least the application rates are achieved (see coverage). On absorbent surfaces, repeat or increase rate of application until surface is completely saturated. Allow a minimum interval of 4 hours between coats.

COVERAGE:

Coverage will be determined by porosity of the substrate. On brickwork, coverage will be approximately 4m²/L. This should be confirmed by trials on site.

CLEANING:

Equipment should be cleaned with solvent immediately after use. Any spillages should be absorbed with sand or sawdust etc. and disposed of in accordance with local regulations.

APPLICATION:

Shake or stir thoroughly before use. CEMSEAL should be applied, without diluting, in two "wet on wet" coats to ensure complete coverage and saturation of the substrate. Spraying is the preferred method with larger areas, using either conventional paint spray equipment or a garden sprayer. On absorbent surfaces, repeat or increase rate of application until surface is completely saturated. Re-impregnation at a later date is possible if required. Equipment should be washed out in water immediately after use. Do not apply more product than the substrate can absorb. Do not let product pool on surface of substrate.

PACKAGING:

CEMSEAL is packed in 2 litre, 4 litre, 10 litre and 20 litre plastic pails and 210 litre drums.

PRECAUTIONS:

This product is non-flammable and non-toxic. (Avoid skin and eye contact by using suitable protection, especially when spraying.) Keep out of reach of children. CEMSEAL is not recommended for applications below grade, areas subject to hydrostatic pressure, or as a cure for rising damp. Contact CEMIX for further technical advice for these applications.

DISCLAIMER:

Please Note: Recommendations and advice regarding the use of this product are to be taken as a guide only. Other than as appears on this products packaging, CEMIX LTD. does not give any warranty express or implied as to the suitability of this product for your particular use, because the usage of this product is beyond the control of CEMIX LTD. If you need advice concerning the use of suitability of this product for your particular application, please contact CEMIX LTD first. If this product is defective because of CEMIX LTD's fault, please contact the supplier or CEMIX LTD, who will replace it at no cost.