LARSEN

TECHNICAL DATA SHEET

Version: 01 Issued: Nov 11

REPEL C

Larsen Repel C is an aqueous, creamy silane based impregnating water repellent. Its unique thixotropic nature allows sufficient active material to be applied in one coat, by brush roller or airless spray, even overhead. Repel C has been designed to penetrate deeply into to concrete to give maximum reduction in water absorption and protection from water, pollutants, de-icing salts, chloride ingress and freeze/thaw damage. Treated surfaces remain breathable. Larsen Repel C complies with BS EN 1504-2 Surface Protection product – Hydrophobic impregnation.

GREATLY REDUCES WATER ABSORPTION
REDUCES CHLORIDE PENETRATION
PROTECTS AGAINST FREEZE/THAW DAMAGE
PROTECTS AGAINST DE-ICING SALTS
EXCELLENT PENETRATION
ONE COAT APPLICATION
BS EN 1504-2

TECHNICAL INFORMATION:

PRODUCT INFORMATION	
FORM:	Cream
STANDARD COLOUR(S):	White (dries clear)
FLASH POINT:	64°C
HAZARD INFORMATION:	Not Classified as Hazardous – Wear suitable mask when spraying
CLEANING:	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set.
PACKAGING:	5kg and 20kg tubs
STORAGE CONDITIONS:	Store in sealed containers in dry conditions, protected from extremes of temperature.
SHELF LIFE:	12 months in unopened manufacturer's packaging.
APPLICATION INFORMATION	
APPLICATION RATE:	200 – 400 g/m^2
APPLICATION METHOD:	Brush, Lambskin Roller, Airless Spray
APPLICATION TEMPERATURE:	+5°C to +25°C
DRYING TIME:	30 minutes to several hours, depending on substrate and site conditions.
DENSITY:	0.9 kg/L

TECHNICAL INFORMATION (continued):

BS EN 1504 -2 PERFORMANCE INFORMATION	
PENETRATION DEPTH:	Class II: ≥ 10mm
WATER ABSORPTION AND ALKALI RESISTANCE:	Absorption coefficient < 7.5% compared with untreated sample < 10% in alkali solution
DRYING RATE:	Class I: > 30%
WEIGHT LOSS AFTER FREEZE/THAW CYCLES:	Weight loss 20 cycles later than non-impregnated sample
TYPICAL PERFORMANCE INFORMATION	Typical Results applied by brush to C30 concrete
PENETRATION DEPTH:	@200 g/m^2 – 2-8mm @400 g/m^2 – 6-12mm
WATER ABSORPTION (24 hrs):	Untreated – 3.1% @200 g/m^2 – 0.1% @400 g/m^2 – 0.1%
WATER ABSORPTION (28 days):	Untreated – 3.6% @200 g/m^2 – 0.7% @400 g/m^2 – 0.3%

DIRECTIONS FOR USE:

PREPARATION
Larsen Repel C is designed for application on concrete or similar cement based substrates. New concrete should be a minimum of 28 days old. Repel C may also be applied to older existing concrete. All substrates should be dry, clean and thoroughly sound and free from oils, grease, coatings, curing membranes or any other contaminants which may interfere with penetration. Old surfaces which are contaminated with oil, tyre marks, etc. should be steam cleaned and allowed to dry before application. All surfaces should be uniformly dry with no damp patches. Repel C should be able to penetrate surfaces previously treated with silane based water repellents.

APPLICATION
Larsen Repel C is supplied ready for use and should not be diluted. Application may be carried out by brush, lambskin roller or, for best results, airless spray. Apply at a rate of 200 – 400 g / m^2. The exact amount depends on absorbency of the substrate. At higher application rates the product may liquefy and run. A second coat may be applied at any time after the first has penetrated the surface, although this is rarely required. Care should be taken when spraying to prevent over-spray landing on surrounding areas or being carried by wind. Building elements, windows, plants etc nearby should be covered with polythene sheeting during the spraying process. It is advisable to carry out a trial area of 1-2m^2 to calculate coverage specific to the area to be treated when pricing.

RESTRICTIONS
Treated surfaces must be protected from rain until dry. Repel C should not be used if the temperature is below 5°C on a falling thermometer or below 3°C on a rising thermometer. All surfaces to be treated must be frost free and dry. Not suitable for contact with bitumen or some insulation materials. Always carry out a trial area first. Larsen Repel C has only a moderate ‘beading’ effect, this is only a surface effect and should not be confused with the reduction in water absorption conferred by the product.

The information and recommendations above are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied in accordance with current best practice, national standards and our recommendations. As we have no control over site conditions or methods of application, no liability can be derived from the contents of this information sheet, or from any written recommendations, or from any other advice offered. The user of the product is solely responsible for the product’s suitability for the intended application and is recommended to test the suitability prior to use. We reserve the right to change the properties of our products without notice. All orders are sold subject to our current terms of sale and delivery. With the publication of this Technical Information Sheet all previous editions are no longer valid.

For further information consult our Technical Department
BELFAST: 028 9077 4000
DUBLIN: 01 834 8255

www.larsenbuildingproducts.com