

DESCRIPTION

A ready-to-use, clear, water-based transformative sealer designed for penetration through the application to the surface of concrete, above, on or below grade, interior or exterior.

BASIC USES

Brushed, rolled or sprayed on concrete for vapor proofing, waterproofing, sealing, hardening, dust proofing and weatherproofing. Closes the capillary system of concrete eliminating the route of ingress or egress of any water, chemicals or other. Protects concrete surfaces from abrasion, freeze-thaw, excessive salt damage and stops water seepage where it is not caused by cracking or other structural failure.

MAJOR ADVANTAGES OF VL 5/5™

- ~Closes Capillaries in Cementitious applications (Concrete, Mortar, Shot-Crete, etc.)
- ~Eliminates path of Moisture, Chemical & Salt intrusion
- ~Treatment is permanent and integral
- ~Effective as a negative side waterproofing against a hydrostatic head of over 115 ft/35 m
- ~Increases density & hardness
- ~Reduces or eliminates efflorescence & leaching
- ~Effective in reducing freeze-thaw spalling
- ~Prevents chemical corrosion and physical abrasion of the treated surface
- ~Solvent-free, odor-free, non-toxic and non-flammable
- ~Ultra-violet stability

TECHNICAL AND PRODUCT DATA

VL 5/5 penetrates deeply into the capillary pores of the cement product and reacts to form crystals, becoming part of the concrete itself.

VL 5/5™ will not change the appearance of the concrete surface to which it is applied.

VL 5/5™ has been tested as a chemical hardener by the Schmidt hammer rebound test with the following results:

10 year old slab

- ~ untreated 2000 psi (13.8 MPa) No. of Components One
- ~ one coat 3000 psi (20.7 MPa)
- ~ two coats 4600 psi (31.7 MPa)

TECHNICAL AND PRODUCT DATA (continued)

New Pour Treated 4900 psi (33.7 MPa)
~ one coat 6000 psi (41.3 MPa) Shelf Life 12 months
at 5-24°C (41-75°F)

Packaging 20L pails & 200L drum
Pot Life Indefinite
Flash Point None
Clean-up Water

APPLICATION INSTRUCTIONS

Mix VL 5/5™ thoroughly before using and keep it agitated during use as the active ingredients are in suspension and will settle. Do not thin in any way.

Fresh Concrete - VL 5/5™ is applied to green concrete as soon as the surface water sheen has disappeared and the concrete can be walked upon. On vertical, formed surfaces, VL 5/5™ is applied as soon as the forms have been stripped.

Old Concrete - Surfaces to be treated should be swept or brushed clean and then tested for absorption by sprinkling water on them. If the water drops bead up and are not readily absorbed by the concrete, the surface must have been previously coated or oiled and it must therefore be cleaned before VL 5/5™ application. VL 5/5™ must be absorbed into the slab to be effective. Oil or other stains must be removed before applying VL 5/5™. Clean and prepare the surface per selected Tech Bulletin, contact manufacturer for direction.

COVERAGE

VL 5/5™ is best applied by low pressure spray, although it can be applied with a roller or brush. VL 5/5™ is normally applied in two light coats, the second as soon as the surface is dry to the eye, with each coat averaging between 300 and 400 square feet per gallon (75 and 100sf/L).

If the application is in one coat, coverage should be about 190 square feet per gallon (50 sf/L). Absorption amounts will vary according to the porosity of the concrete. Contact manufacturer if application rates are not close to specified. For chemical hardening, for very porous concrete, or to maximize resistance to stains or mild acids apply a 2nd coat until the surface is saturated. The surface will show a light sheen when saturation is reached

COVERAGE (continued)

A blooming or whitish deposit sometimes forms on the surface if ponded areas are left to dry. To avoid this blooming effect make sure that VL 5/5™ is not allowed to pond on the surface or flush the surface with clear water 30 to 45 minutes after application to remove any ponding residue. If residue remains after drying, brush with a stiff broom and dilute with VL 5/5™ to remove if necessary.

SPECIAL HANDLING

Do not spray or allow overspray on glass or aluminum, it causes etching. Any compound sprayed on glass or aluminum should be immediately rinsed off. Do not allow the product to puddle or allow water to stand on the surface immediately after application, it can leave a residue that is difficult to remove. Rinse the job thoroughly after application whenever possible and use lighter coats if necessary. If difficult residue is formed, try scrubbing with a stiff brush and water pressure, and if necessary, dilute the residue with more VL 5/5™. Tilt up slabs or other preformed units treated with VL 5/5™ and stacked in contact with one another may be bonded together unless a bond breaker is applied, after the VL 5/5™, over the surface that will be in contact. VL 5/5™ is compatible with most bond breaker systems, contact Manufacturer for additional information. VL 5/5™ should not be applied when ambient temperature is at or below freezing. VL 5/5™ should not be applied where rain or other water is running over the surface or while there are puddles of water on the surface or when rain is imminent. Do not allow VL 5/5™ to freeze and do not use any VL 5/5™ that has been previously frozen.

SAFETY

Please refer to SDS and contact manufacturer as necessary.

WARRANTY DISCLAIMER

The information herein is to assist customers in determining whether our products are suitable for their application. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to the contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute a warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any loss or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.