

KemSeal VC

High Performance Waterproofing One Component Cementitious Slurry.

Description	Kemseal VC is a one component waterproofing slurry for concrete and masonry based on special cement, siliceous graded fillers, additives, and a special re-dispersible polymer. When mixed with water, it produces a ready-to-use workable slurry. The material can be manufactured based on sulfate-resistant cement Type V.
Where to use	Kemseal VC is ideal to be used for the following operations: • To provide a non-toxic, flexible, waterproof coating ideal for water-retaining structures. • To protect concrete against concrete decay by providing a chemical-resistant barrier to corrosive salts and atmospheric gases. • To reface and even out variations in concrete surfaces. • To seal and coat tie bar holes to ensure water tightness. • To provide a tough and durable coating. • To provide protection to concrete surfaces from carbonation and chloride attack. • Used as a waterproof base for swimming pools before fixing tiles. • Excellent adhesion has a unique balance of organic and inorganic compounds. • As a bonding agent between new and old concrete.
Advantages	• Triple sealing by the action of the polymer, Vocalse cement, and gel formation into the concrete p Characteristics improvement over 10 years. • Resists alkalis and acids of PH as low as 4. • Resists carbonation. • Heat Resistance up to 150 °C. • Formulated for short and long-term • Efficiency. Self-curing, improving the degree of hydration. • Suitable for the food industry and potable water. • Excellent adhesion. • Doesn't need surface smoothing before application. • Doesn't need any protection against abrasion or U.V. after application
Properties	
Color	Grey
Toxicity	Non - toxic
Pot life	1 hour @20 °C
Fresh density	1.97 Kg/L
Adhesion	> 10 Kg/cm ²

Surface Preparation	• All substrates should be clean, and free from dust, loose particles, grease, oil, or any other foreign matter. • All concrete surface defects (Honeycombs, Rock pockets, air voids ...etc.) should be repaired following a proper repair procedure, using Vicalpes mortar having the following proportions by volume: - One part Vicalpes cement to one-part siliceous graded sand. - water is to be added to the dry mix while mixing with gloved hands to a mastic consistency. - Before applying Kemseal VC, all surfaces should be saturated with water with no running water (saturated surface dry).
Mixing	• In a suitable container add 6.5 – 7.0 liters of potable water to the content of a 25 Kg bag of Kemseal VC. • Start mixing with a slow speed drill (350 - 400) rpm for enough time to produce an homogeneous mix.
Application	• The slurry will be applied to the prepared surfaces using a suitable brush at the rate of at least two perpendicular coats having about 1.0 mm thickness or about 16 m per batch using a 25 kg Kemseal VC bag. • Additional coats are optional and depend on the water head and substrate conditions. • The final coat can be smoothed using a trowel after painting. • As a bonding agent, the new concrete should be casted on a wet coat of Kemseal VC.
Theoretical Coverage	2 – 2.5 Kg / m ²
Packaging	Kemseal VC is supplied in 25 Kg
Shelf life & Storage	Kemseal VC has a shelf life of 6 months if stored in normal temperature and closed shaded dry area in undamaged original packing
Health and Safety	Use gloves when handling chemical products.
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble-free durable structures. PROKEM designs tailor-made products should there be a critical application that requires specific properties rather than our main range for our customer's satisfaction. PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current terms of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.