

CONSEAL 1000 PENETRATING PERMANENT CONCRETE SEALER

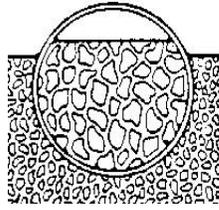
There are few guarantees in life, but one thing is almost certain; "all concrete will crack". There are many types of cracks and a variety of causes including; plastic shrinkage cracks, improper jointing, thermal expansion and contraction, structural stress, craze cracking, settlement cracks and cracks from freeze thaw. It is not possible to produce concrete that is completely crack free.

When Portland cement and water are mixed together, the chemical reaction produces calcium silicate hydrate. This is the material that gives the concrete matrix its strength. A by-product of this hydration process is calcium hydroxide; and it is latent in all concrete, new or old. In addition to all of the cracking possibilities that can occur, all concrete is porous simply due to the water of the design mix being consumed by the hydration process. The cracks and interconnected network of pores within the concrete are all avenues for moisture intrusion into and through the concrete; which, can and will cause damage to the reinforcing steel and to the concrete itself if allowed to continue.

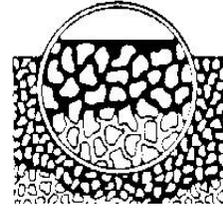
CONSEAL 1000 is a colorless, non-toxic, non-flammable, low viscosity, spray applied liquid formulation that provides a permanent internal moisture barrier for waterproofing and preserving new and old concrete.

Conseal 1000 will also seal concrete block or cinder block that has been fortified with Conseal Primer 1050.

Whereas most other waterproofing products develop only a surface coating, CONSEAL 1000 is designed to penetrate deeply (up to 8 inches) where it becomes an integral part of the concrete. CONSEAL is a waterborne, internal waterproofing system which contains the same inorganics present in concrete.



Spaces between particles leave untreated concrete subject to penetration by moisture, oils, acids, etc.



CONSEAL penetrates deeply into the concrete where it chemically reacts to fill the voids and bond the particles into a solid mass, creating a permanent seal.

A proprietary wetting agent composed of sixteen enzymes that virtually eliminate the product's surface tension and significantly reduces its viscosity, enables the CONSEAL 1000 to penetrate deeply into the small pore diameters and hairline cracks. This filling of all the inter-connected pores and fissures stops liquid transmission by the initial formation of a gel within the pores and interstitial spaces within the first 72 hours after the CONSEAL application. This gel swells in the presence of moisture and prevents the passage of water and other liquids under hydrostatic pressure. Within a short time, the gel transforms into a crystalline growth within the concrete that permanently bonds to the concrete, becoming an integral part and providing a permanent seal; while it also strengthens the concrete.

CONSEAL 1000 preserves new or old concrete. CONSEAL hardens new concrete and retards dusting without altering the surface appearance, texture, or bonding characteristics. The occlusive seal formed by CONSEAL 1000 limits deterioration of concrete and dense cementitious masonry by resisting the penetration of acids, alkalis, oils and salts. CONSEAL is formulated to perform against below grade hydrostatic pressure and is also excellent as an on grade moisture barrier.