



ImmoCem is based on natural and synthetic zeolites and specifically designed for use in pollutant immobilization and remediation of polluted sites.

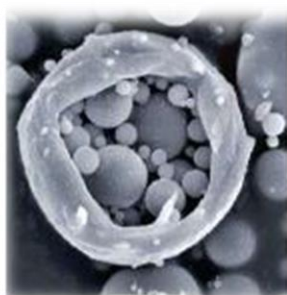
ImmoCem acts as an absorber, a flocculent, a catalyst, molecular sieve, neutralizer, and an ion exchanger. Making it very versatile in engineered applications.

It can be used in support of existing pollution control technologies, or it can form the basis for a fully new approach to pollutant immobilization and control. ImmoCem can be used to turn contaminated soils and sludges into a harmless and strong bound construction material.

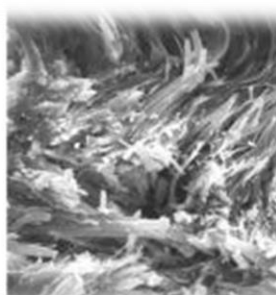
ImmoCem uniquely is suitable for effective immobilization of organic and inorganic chemical pollutions. It is also highly effective for immobilization of chromium 6 and heavy metals.

ImmoCem offers unique and effective solutions for remediation of historically polluted sites making their continued and sustainable use possible. ImmoCem helps to close the 'Technical Nutrients' cycle and helps to prevent the escape of toxics and carcinogens into the natural environment.

ImmoCem performance relies on extending the crystallization process by forming long needle and 'cage' crystalline structures enabling pollutant immobilization and preventing their leaching into the environment.



(A)



(B)

Photo (A) shows the binding process of particles with just cement alone, note that the particles are glued together. Strong but brittle with lots of voids that can allow moisture to enter and remain.

Photo (B) with added ImmoCem shows the growth of extended crystals which form a wrapping bind around the particles creating a stiffer more flexural bond, which fills voids and traps any free moisture and prevents ingress of water.

ImmoCem is application friendly and can be used mechanically as with traditional soil stabilisation equipment or in conjunction with labour intensive work methods, if required for small sites. ImmoCem can also be used in extremely difficult working conditions as it continues to give effective results in wet, very cold, and extremely hot climates.

ImmoCem is always used in combination with Cement binders and can bond almost any type of soil/material and making the new composite material water, acid, and salt resistant, allowing the use of polluted soils and sludges as road and foundation base.



Heavy plant storage area constructed at Moerdijk harbour from dredged silts and sands.

In essence ImmoCem is solidification/stabilisation improver and additive to cement binders specifically designed for environmental applications.

