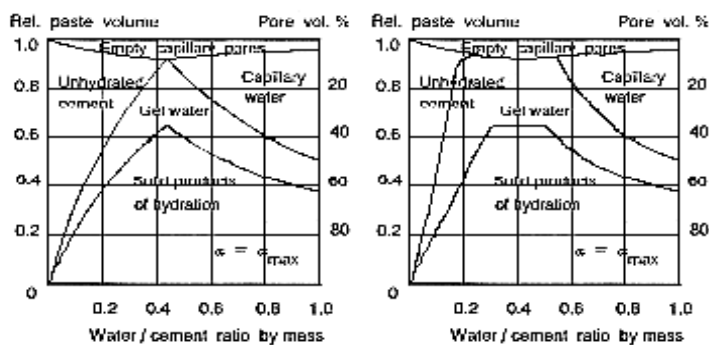
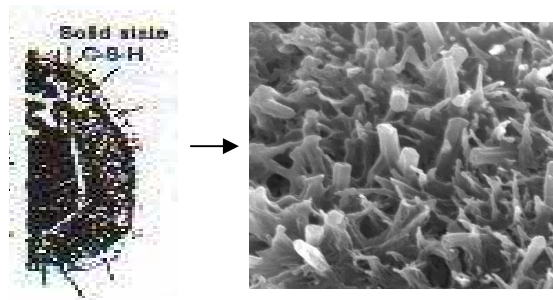


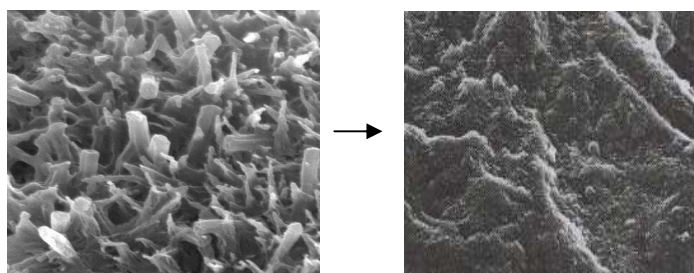
PORTLAND LEVEL Self Leveling Seamless Floor Mortars

Portland Level is Nano Technology Admixture, design for Self-Level & Seamless Flooring. By changing the Cement Gel of Portland Cement, become Spherical Clag Microstructures of Ultra High Flow. By the Gravitational Force level it toward Zero Slope & Self-Level Floor. (Mix-design of Portland Cement 1: River Sand 3 Mix-water 0.6 the Flow Slump is 90 cm with D 20x10 H 30 cm Cup).

The remaining slurry is forming Tetrahedral Needles Microstructure to become Geo Polymer Composite (Scanning Electro Microscope or SEM show in Fig. 1). Since the Spherical Clag Microstructures are hollow. The elasticity is enough to absorb the whole expansion and the whole shrinkage according to the whether changing to become Unlimited Area of Seamless Floor.



Portland Level filled with Hydro Scoop Polymer changing Water Voids to become Gel Voids to eliminate Breeding by Gel Viscosity, Segregate by Buoyancy, Plastic Shrinkage Cracks by Elasticity, Drying Shrinkage Cracks by Water Retaining and Creeps by Internal Stress Relive become High Performance Concretes with Water Retained & Self Curing ability. (Fig.2)



able to co-polymerize in water solution of concrete and when water become Gel Voids, the copolymer able to be Grafted with the Gel Voids forming Co-Center Matrix with Microstructures to become Protective Coating against Water, Acids, Bases, Salts, and Waxes. Become High Durability & Chemical Protective Polymer Concretes (Fig3)

Self-Level & Seamless Mortars

Comply with ASTM C 937 Standard Specifications for Grout Level for Pre-placed Aggregate Concrete.

Cover thickness can be lower to just 1 cm by Self-Compacting and Polymer Bonding Characteristics.

Topping may use Cement, White Cement or plus Color Pigments. It can be finished each with Black, Brown and White Scotch Bright by normal Cleaning and Polishing Machine to the Mirror Image. This Seamless Floor can totally replace Epoxy Flooring both in Cost and Abrasiveness

Underlay Self-Level Platform for Veneer, Parquet, Vinyl Tiles, Ceramic Tiles, Marble or Granite.

Mixed Design:

Mixed Design (by Wight)	Thickness	Binder*	Fine Sand	Water	Portland Fluidifier
Bright Thin & Semi Resilience Floor	5 mm.	100	100	60	1.0
Rigid Self-Leveling & Seamless Mortars	10 mm.	100	300	60	1.0

* Cement or Cement plus Pulverized Fly Ash

Self-Level & Seamless Concretes Normally, use according to properties of Geo Polymer, Polymer Concrete, High Compressive Strength, High Flexural Strength, High Flow, Self-Level, Self-Compact, Seamless Floor, Self Curing, Durability, Water Proof & Chemicals Protection such as Smooth Self-Level Concrete Floor, Long Span Bridge Deck, Low Maintenance Seamless Highway.

Desert Climate Concretes, Freeze-Thaw Chloride Salt Protective Concretes, Tidal Harbour Concrete etc.

Mixed Design: According to the Specification needed. Use Level 1% of Binder.