



ISO 9001:2000
Certified Company

Powder Blending Admixture for Cement (ASTM C1107)

Zahabiya ConcreMight-PD is polymeric reinforced blending bonding additive and Cement/Concrete grouting admixture powder; formulated to suite and solve specific construction related problems. This specialized product is Safe & Non-Hazardous in handling and has positive action on cement mortar composition, facilitating and contributing to higher Compressive Strength, Non-Shrink & Non-Cracking properties, especially in the extreme climatic conditions. It is used with cement/ silica sand as multipurpose fast setting and grouting admixture allowing higher final strength. Considerably increases water proofing, salinity/chemical resistance, facilitates workability, strength & durability of concrete related to its dosage used. Zahabiya ConcreMight-PD improves water impermeability of cement, increasing remarkably its strength & resistance against weather, water/salt penetration and such other harmful chemical substances that may affect concrete composition. Zahabiya ConcreMight-PD is strongly recommended for saline, water logged, marine/sea-side/ coastal areas, waste water ponds, effluent drains, basements, underground water tanks, sub-soil or construction zones exposed to chlorination and carbonation effects.

Zahabiya ConcreMight-PD is also ideally used as Non-Shrink Grouting, for Machinery Foundation, Sealing/Plugging Water Seepage detected after construction related deficiencies; used with O.P.C. and Silica sand mixture in the pre-specified or site testings calculated dosage. Depending on the ultimate quality and desired properties of concrete composition and nature of job, dosage of Zahabiya ConcreMight-PD with respect to Cement/sand percentage has to be decided.



COLOUR:	Light Gray powdery compound.
DENSITY:	1.4 kg per litre on average.
SOLIDS:	100% powder.
PHYSIO-CHEMICAL RESISTANCE:	When appropriately used in Cement/Mortar/Concrete as an admixture, the surface resists mild acids, alkalis, sulphates, chlorides, ammonia, sugar etc. The cement composition is protected with oxidation, chlorination and carbonation effects.
SAFETY:	Safe in handling, Non-Flammable, Non-Toxic/ Non-Corrosive. A "Human Friendly & Environmentally Acceptable" Product.
DOSAGE:	Normal recommended dosage of Zahabiya ConcreMight-PD is 1:6 OPC for specialized jobs. Depends mainly on the nature of job and ultimate properties of concrete required. The quantity of Cement may be increased for critical jobs.
STORAGE/SHELF LIFE:	To be stored in sealed packs at cool & dry place. Shelf life in closed original packs is one year from the date of manufacturing.

SPECIALISED USES IN CIVIL CONSTRUCTION JOBS

- 1. CEMENT ADMIXTURE (ASTM C1107):** This product is formulated especially to be used with Cement/ Concrete as a powder admixture to considerably increase rapid compressive strength, water impermeability, weather/salinity/chemical/wear resistance. Particularly specified at Sub-soil and Water logged areas, U/G water reservoirs, waste effluent contact areas, for fast-setting properties of cement/ concrete/mortar with increased compressive and tensile strength. Helps to prevent penetration/permeability of water into concrete to such an extent that further corrosion of reinforcements could be retarded. Normally in Concrete/ Mortar mix as concrete strengthening & bonding admixture, 1 kg per 20 kg OPC and proportionate fine silica sand added and mixed thoroughly in the required quantity of potable water, is suitable for better end results depending upon soil / atmospheric conditions for specialized applications attaining the high early compressive strength. Early hydration after 8 hours or as soon as cement is found set to touch is recommended.
- 2. NON-SHRINK GROUTING, MACHINERY INSTALLATION & FOUNDATION PREPARATIONS:** May also be used for sealing of anchors, cavities, gaps etc., use 1.5 kg of Zahabiya ConcreMight-PD per 6 -7 kg of OPC mixed with the proportionate quantity of fine silica sand depending on the ultimate compressive strength and other required properties.
- 3. SEALING/ PLUGGING WATER SEEPAGE:** For low-pressure in/ out ward water seepage/ leakage, clean the existing surface thoroughly and dry it as best as possible. Preferably divert the water flow from that area for enough time to facilitate workability. Apply the thick Cement slurry prepared by using 1 part of Zahabiya ConcreMight powder mixed thoroughly in 3 parts of fresh Cement and 2 parts fine sand mixture adding minimum water required to get pasty slurry and immediately apply compactly. Let it be dried for 2-3 hours and repeat the same action to seal the surface. Use hot air blower for quick sealing, if safe and possible. The surface will be sealed/ plugged from seepage and minor leakage. The process may be repeated for areas that are more critical. The concentration of this compound powder may be increased against Cement/ sand ratio for "difficult to seal/ plug areas" as per trials made accordingly related to the water pressure. For the areas where water seepage is constant and can not be completely stopped, try the more concentrated powder ratio (1 Part Zahabiya ConcreMight-PD, 2 parts Fresh OPC and 1.5 Parts silica sand) directly using on the flowing/ seeping water applying with manual pressure and holding for some time as a plugging composition. This process may be repeated again as per the intensity of flowing water. Please remember that to repair and seal spoiled and damaged concrete surface and rectify the original construction related faults, these suggested processes must be very patiently tried with skillful trials at site.
- 4. HYDRATION:** Where applicable, with potable water only.

IMPORTANT NOTICE:

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME; NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties, expressed or implied. Our warranty is limited to the replacement of so proved defective Zahabiya original product only, provided used within shelf life as supplied originally.