

KALMATRON KF- $\alpha\beta\gamma$

INTRODUCTION

- KALMATRON® KF- $\alpha\beta\gamma$ is a cementitious powder with dry density 2,500 Kg/m³ and wet density of 3,500 Kg/m³ designed for attenuation of α , β and γ radiation.
- Developed for deactivation of contamination and restoration of building structures radiation attenuation and for suppressing of the sources of radiation and other radioactive contamination.
- KF- $\alpha\beta\gamma$ is applicable as a coating, admixture to concrete mix and strewing on or into source of radiation.

APPLICATION

COATING

- After mixing of 4 parts of KF- $\alpha\beta\gamma$ with 1 part of water by volumes it is applicable by plaster technology with safety for cement/concrete jobs.
- Pumpable by the standard shotcrete equipment on the walls, floor, sealing, beams and columns.

ADMIXTURE

- Applicable as an admixture to the concrete mix with established dosage per cubic unit of application.

STREW

- Applicable by strewing of KF- $\alpha\beta\gamma$ powder in/on a source of radiation located in a hard approachable environment.
- Mix KF- $\alpha\beta\gamma$ powder with relic or industrial radioactive dust, sand, ash, etc. to suppress radiation.

BENEFITS

- Resistance to radiation provides gradually for any source of radiation in any phase of stage.
- Available for manufacturing of containers and wall blocks.
- Applicable in dry, damp and wet environments.
- Liquid Impermeability KF- $\alpha\beta\gamma$ layer provides upon request.
- The safety and sanitary requirements for handling, storage and application are the same as for any cementitious materials.
- Do not require any special conditions, uniform, equipment or skills for handling, storage and application.
- The KF- $\alpha\beta\gamma$ is more workable and cheapest technology for restoration of Resistance of building structures against penetration of radiation and deterioration of materials.
- Variable improving of durability.

THE ESSENTIALS OF KALMATRON KF- $\alpha\beta\gamma$

- Comparative attenuation of radiation by KF- $\alpha\beta\gamma$ with the same mass of application is:
 - higher than concrete by 40%;
 - higher than polymer-oxide compounds at 1.5 times;
 - lower than solid lead at 1.35 times;
- Comparative pricing of KF- $\alpha\beta\gamma$ estimated with equipment and labor for the same level of radiation attenuation is:
 - concrete is more expensive at 36% for the same application;
 - lead is more expensive at 280% for the same of application.
 - polymer based compositions are more expensive at 2 times for the same of application.