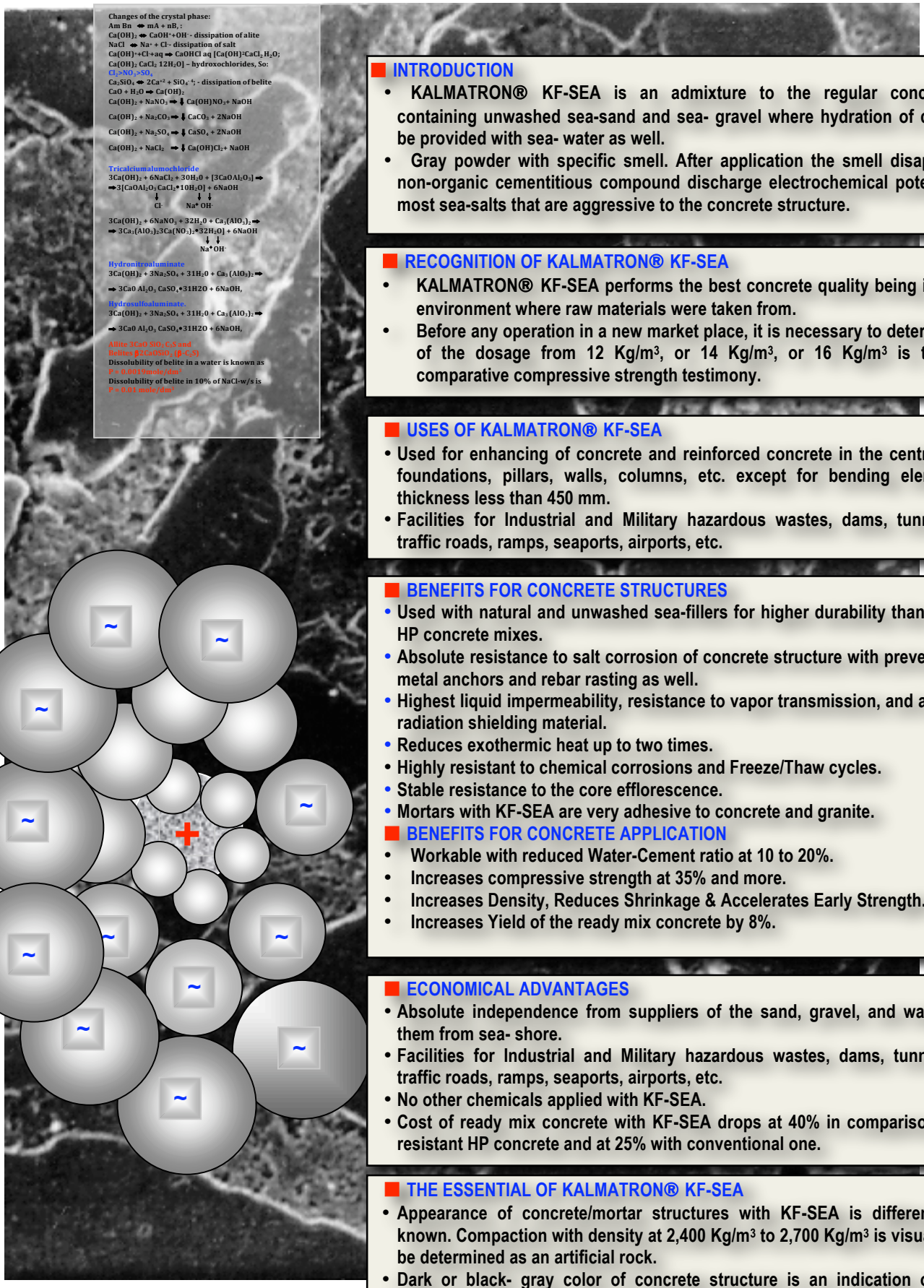
KALMATRON KF-SEA



INTRODUCTION

- KALMATRON® KF-SEA is an admixture to the regular concrete mixes containing unwashed sea-sand and sea- gravel where hydration of cement may be provided with sea- water as well.
- Gray powder with specific smell. After application the smell disappears. The non-organic cementitious compound discharge electrochemical potential of the most sea-salts that are aggressive to the concrete structure.

RECOGNITION OF KALMATRON® KF-SEA

- KALMATRON® KF-SEA performs the best concrete quality being in the same environment where raw materials were taken from.
- Before any operation in a new market place, it is necessary to determine which of the dosage from 12 Kg/m^3, or 14 Kg/m^3, or 16 Kg/m^3 is the best in comparative compressive strength testimony.

USES OF KALMATRON® KF-SEA

- Used for enhancing of concrete and reinforced concrete in the centrally loaded foundations, pillars, walls, columns, etc. except for bending elements with thickness less than 450 mm.
- Facilities for Industrial and Military hazardous wastes, dams, tunnels, heavy traffic roads, ramps, seaports, airports, etc.

BENEFITS FOR CONCRETE STRUCTURES

- Used with natural and unwashed sea-fillers for higher durability than any known HP concrete mixes.
- Absolute resistance to salt corrosion of concrete structure with preventing of the metal anchors and rebar rasting as well.
- Highest liquid impermeability, resistance to vapor transmission, and advanced as radiation shielding material.
- Reduces exothermic heat up to two times.
- Highly resistant to chemical corrosions and Freeze/Thaw cycles.
- Stable resistance to the core efflorescence.
- Mortars with KF-SEA are very adhesive to concrete and granite.

BENEFITS FOR CONCRETE APPLICATION

- Workable with reduced Water-Cement ratio at 10 to 20%.
- Increases compressive strength at 35% and more.
- Increases Density, Reduces Shrinkage & Accelerates Early Strength.
- Increases Yield of the ready mix concrete by 8%.

ECONOMICAL ADVANTAGES

- Absolute independence from suppliers of the sand, gravel, and water. Take them from sea- shore.
- Facilities for Industrial and Military hazardous wastes, dams, tunnels, heavy traffic roads, ramps, seaports, airports, etc.
- No other chemicals applied with KF-SEA.
- Cost of ready mix concrete with KF-SEA drops at 40% in comparison with salt resistant HP concrete and at 25% with conventional one.

THE ESSENTIAL OF KALMATRON® KF-SEA

- Appearance of concrete/mortar structures with KF-SEA is different from the known. Compaction with density at 2,400 Kg/m^3 to 2,700 Kg/m^3 is visually close to be determined as an artificial rock.
- Dark or black- gray color of concrete structure is an indication of complete mineralogical oxidation, or so- called Ironing of Concrete.