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Carbofen MBK

Liquid Air Entrainer for Concrete

PRODUCT DESCRIPTION

Carbofen MBK is a compound resin dissolved in an aqueous solution. It is derived from the synthesis of polyphenol resins with natural saponified resin acids, which go through special processing conditions obtaining as result a product with excellent properties as an air entraining agent for microcellular concrete and mortar.

SPECIFICATIONS

No volatiles (%), ASTM D-1259	64 – 66
pH (in solution at 2%), ASTM E-70	10 – 11
Free Alkali (mg NaOH/g), EQP	40 - 50

ADVANTAGES OF CARBOFEN MBK

- It does not require the neutralization of the resin with caustic soda;
- It increases tension and flexibility strengths;
- It lowers total cost by increasing materials yield;
- Good stability of viscosity;
- It does not provoke a change of volume in stored concrete and mortar;
- Higher resistance to cracks caused by freeze-thaw cycles;
- Better chemical resistance to the sulfate;
- Strong reduction in bleeding (water seggregation on structure´s surface)
- It increases the plasticity of the admixture;
- It reduces the permeability;
- It increases the durability;
- Easy preparation of the admixture;
- Excellent solubility in water.

SOLUBILITY

Totally soluble in water.

APPLICATIONS

- To extend the life span of buildings and structures made by concrete or mortar. The air entraining agents have large use in foundations, slabs, dikes, tunnels, canals, bridges, overpasses, concrete highways projects, and others;
- It can be applied at all types of concrete including light weight and pre-stressed concrete where optimum air entrainment is desired;
- To improve workability to lean/harsh mixes and to reduce bleeding caused by grading deficiencies in the concrete materials;
- In concrete containing Pozzolith or other admixtures (water reducers, accelerators, retarders, densified and water repellents).

USING INSTRUCTIONS

To prepare the Air Entraining admixture dissolve Carbofen MBK in water down to a concentration of about 10% solids (the original concentration is 65%).

The basic composition is:

Carbofen MBK	220 kg – 485lb
Water	1980 kg – 4400 lb

For a quick dissolution in water the use of a mixing machine for concrete is recommended. Add the amount of the resin to one third of the volume of water necessary after it has been heated to 40-50° C (105-125° F). After the resin has dissolved complete with the volume of water left, stir and unload.

A dosage of 30-50 ml per 50 kg (110lb) of cement is enough to incorporate 3-6 % of air in the concrete admixture. The above mentioned range of air entrainment can vary depending on the raw materials used in the admixture. Only by performing tests with the specific admixture the exact dosage can be determined.

PACKAGING

Metal drums of 220kg – 485lb.

PRODUCT INFORMATION AND SAFETY

Read our Material Safety Data Sheet (MSDS).