

**Ressi Foam Crete** is a system of adding a foaming agent to ordinary Portland cement to increase volume and raising the floor level of the RCC slab. This system is extremely useful for lightweight floor raising applications and roof insulation systems.

## ADVANTAGES

- ✓ Does not settle, hence requires no compaction.
- ✓ Lightweight - does not impose large loadings.
- ✓ Does not impose significant lateral loads.
- ✓ Excellent fire-resistant properties.
- ✓ Enables fast work.
- ✓ Excellent sound and thermal insulation.

## SURFACE PREPARATION

All loose particles of dust and oil shall be cleaned off the surface prior to application. For very hot climatic conditions, the surface may be dampened with portable water. If the surface at the bottom is too porous, a polyethylene sheet may be set as a base prior to the application of **Ressi Foam Crete**.

## PRODUCT PREPARATION AND APPLICATION

The application of **Ressi Foam Crete** is done via the use of a foam generator, mortar mixing and pumping machine and foaming agent which is provided by Ressichem. The entire system is automatic where the density of the foam concrete is set and then applied over the prepared surface.

## MAXIMUM COMPOSITION

Density	Cement (KG)	Water (Liter)	Foam (Liter)
300	250	125	870
400	33	165	845
600	416	208	666
600	495	228	632

## COMPRESSIVE AND MECHANICAL STRENGTH

By using a 32.5 class cement the following average values of mechanical resistance can be obtained:

D 300	0.5 N/mm <sup>2</sup>
D 400	1.0 N/mm <sup>2</sup>
D 500	1.4 N/mm <sup>2</sup>
D 600	2.5 N/mm <sup>2</sup>



## SPECIAL NOTE

The optimum mix can only be established with the use of onsite trials. The figures provided above are just used as general guidelines using cement of 32.5 grade. The density and strength of **Ressi Foam Crete** may vary if the cement is varied from time to time. Onsite trial of the system is strongly recommended.