# **ADDIPOR 55**

Foam Grains for Producing The Multi – Use Light Weight Concrete

# **Description :**

• Addipor 55 is expanded and extruded foam grains with special size and grading used for producing the light weight concrete which has sufficient thermal and acoustic properties.

# Composition of the light weight concrete :

- Graded siliceous Aggregates .
- Addipor 55 .
- Special concrete admixture (Addicrete BV or BVF).
- Mixing water.
- \* The density and the properties vary according to the mixing ratio as given in the following table.

24	Components of Addipor 55 Concrete						XX7 · 1 /	C1	Compressive
Mixture	Cement	Aggregate		Addipor 55	Water	Addicrete	Weight of	Slump	
Symbol	Cement	Sand	Coarse Size 1	radipor 55	water	Admixture	concrete		Strength
	Kg	Kg	Kg	Kg	liter	Kg	Kg/m <sup>3</sup>	cm	Kg/cm <sup>2</sup>
F1	400	60	30	24	210	12 (BV)	537	18	4.37
F2	400	140	40	24	230	14 (BVF)	620	22	6.27
2	385	425	-	20	175	3.8 (BV)	950	NA	NA
M1	450	400	-	22.5	235	8.5 (BVF)	1113	20	35.3
А	450	500	-	23.5	205	4.75 (BV)	1143	4	29
1	445	665	-	15	195	3.8 (BV)	1300	NA	NA
K1	480	500	600	8	190	7 (BVF)	1900	12	179.2

#### - Examples of different mixtures of addibor 55 concrete and their properties:

• Actual dosage of addicrete and **addipor 55** should be established from trial mixes to suit site requirements.

• Mixture symbol 1, 2 gives 1 m<sup>3</sup> of fresh light weight concrete.

• The reduction in concrete weight ranges from 13.6% to 75.6%.

# **Technical Data :**( at 25° C)

- Concrete density varies from 537-1900 kg/m<sup>3</sup> according to the ratio between the solid materials and the foam grains.
- The compressive strength varies from 4.4 179 kg/cm<sup>2</sup> relative to the change of the density and ratio of components.
- Density of Addipor 55 grains  $= 20 22 \text{ kg/m}^3$ .
- Grain size 5 35 mm.

### Fields of Use :

- Light weight sloping concrete for roofs.
- Light weight thermal insulation concrete.
- Light weight flooring concrete.
- · Manufacture of Light weight bricks and pre-cast units.
- Losse insulation filled cells.

# **Great Products**



### **Advantages :**

- Variable densities according to the requirements.
- Thermal and acoustic insulation.
- Non-Flammable.
- Economic and easy application method.

# **Direction for use :**

- Mix Aggregate and cement.
- Mix water and admixture then add the mixture to the dry mix and remix for 2 minutes.
- · Add Addipor 55 gradually during mixing until complete homogeneity.
- Place and cure the light weight concrete as for normal concrete.

### Storage:

• 2 years minimum under suitable conditions.

### **Packages:**

• bags 2.5 Kg.



