



DURASPRED F

Foaming Agent for Light weight Concrete

Description :

DURASPRED F is a foaming agent for production of light weight foam concrete with bulk densities of the fresh concrete down to 250 kg/m^3 . It is also suitable for the manufacturing of light weight construction elements based on Gypsum.

Dosage:

1 to 2.3 kg of **DURASPRED F** is dissolved in 40 liters or more (as the case may be) of clean / potable water. This solution is churned in a foam generator. Foam density would range from 0.070 to 0.080 kg/liter. Depending on the type of foam generator being used the ratio of **DURASPRED F** to water has to be changed slightly if necessary. For exact dosage of foaming agent, please follow guideline in table I.

Light weight concrete production:

An homogeneous mortar is made by mixing cement and water and if necessary sand. Then the foam separately made in the foam generator is intermixed until the desired bulk density is achieved.

Gypsum construction elements:

Gypsum and water are premixed homogeneously and then the separately made foam is intermixed thoroughly until the desired bulk density is obtained.

Technical data:

Colour	:	Hazy dark brown
Foam	:	Liquid
Miscible with water	:	Any ratio
Density, kg/ L at $27 \pm 3 ^\circ\text{C}$:	1.060 ± 0.025
Shelf Life	:	12 months if kept in unopened container.
Storage	:	keep in a cool place
Packing	:	In 25 kg or 200 kg
Health & Safety	:	Eco-friendly, Non-flammable and Non-hazardous.

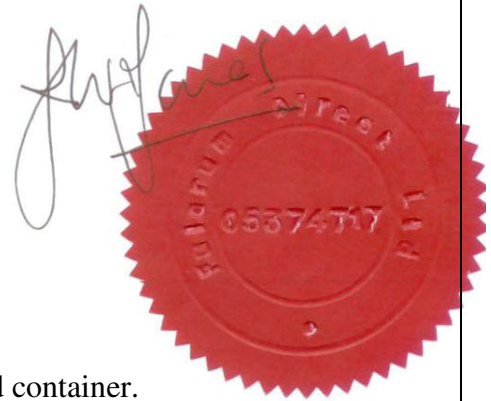


Table I: Guideline for typical Composition of Foamed concrete with different bulk densities and compressive strength at 7 days and 28 days.

Dry bulk densities kg/m ³	Fresh concrete bulk densities kg/m ³	Composition of fresh concrete, kg/m ³			Amount of foam with density 75 gm/L per m ³	Quantity of		Typical compressive strength, kg/m ² .	
		Cement 53G OPC	Sand Zone 4	Water		Approx water, L per m ³ to generator foam	Duraspred F, foaming agent kg/m ³	7 d	28 d
400	485	310	20	95	800	58	2.00	6	8
500	570	330	70	113	760	55	1.87	8	10
600	675	330	170	122	710	51	1.73	11	14
700	784	330	275	128	665	47	1.60	13	17
800	880	330	370	133	625	45	1.53	15	20
900	985	330	470	142	580	42	1.40	21	30
1000	1075	350	540	143	545	40	1.33	23	32
1100	1175	350	645	145	500	36	1.20	38	50
1200	1280	350	745	150	460	33	1.13	45	64
1300	1388	350	850	155	415	30	1.00	58	72
1400	1475	370	915	160	385	28	0.93	69	91
1500	1576	370	1015	165	340	25	0.83	86	114
1600	1675	370	1115	169	300	22	0.67	109	139
1700	1785	370	1215	180	250	18	0.61	134	178
1800	1890	370	1315	189	205	15	0.53	176	230

Note: Above composition and test results are typical and given here purely as guidelines tests were conducted in our lab with temperature of 27⁰C and RH of 65% and 15 cm cube were used for compressive strength.

IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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