PENTAMIX AER 906

Air entraining agent for lightweight concretes

Technical Data Sheet April 2024

DESCRIPTION

Pentamix AER 906 is a semisynthetic air-entraining agent, which contains substances of plant and proteic origins, recommended for the preparation of lightened concretes and cellular mixtures.

USE

Pentamix AER 906 due to its special formulation, added to the components of the mortar prevents the floating of light aggregates and the segregation of the admixture, improving its homogeneity. In lightened screeds it improves workability by facilitating the final smoothing stage

Its high concentration of active material allows the realization of concretes lightened with polystyrene or other light aggregates with density 300-500 kg per cubic meter.

TECHNICAL DATA

	Data	Method
State:	Liquid	Visual
Colour:	Brown	Visual
Specific gravity at 15°:	1,01 +/- 0,01 Kg/lt	IST. 10.06
Potential of hydrogen (pH):	7 ± 0,5	IST. 10.05
Water solubility:	Totally soluble	

DOSAGE

In mortars and concretes. The dosage of **Pentamix AER 906** ranges between 0.02 and 0.1 % on the weight of the cement, depending on the desired results. For aerated concrete foams, it is necessary to adjust the amount of the solution to 3-5% Pentamix AER 906 so that the foam has a density of approx. 50 g/dm3. Use **Pentamix AER 906** with the usual foam-making machines (in the case of tank aerators, dilute **Pentamix AER 906** at the rate of 1.5-2% on the weight of the water)

STORAGE AND VALIDITY

If it is stored in a dry place, far from cold and the direct rays of the sun, and in the original containers kept perfectly closed, **Pentamix AER 906** has 12 months validity beginning with delivey. It is also suggest to carefully close the containers after each collection, and to avoid the mixing of the product with other additives and with non-drinkable water.

PRECAUTIONS

Please read the respective safety data sheet before using it.

PACKAGING

25 kg plastic cans.
1100 kg IBC

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Table of dosages depending on the densities at m^3

Density Kg/m^3	Ratio sand / cement	Quantity of cement Kg/m^3	Quantity of sand Kg/m^3	Quantity of **PENTAMIX AER 907** lt/m^3	Type of use
200	0 : 1	**160**		**1.160**	✓ Thermal insulation of flat roofs with the creation of slopes. ✓ Foundations of floors. ✓ Insulation of slabs. ✓ Filling of ditches and cavities. ✓ Light blocks.
300	0 : 1	**250**		**1.320**	
350	0 : 1	**290**		**1.280**	
400	0 : 1	**330**		**1.250**	
450	0 : 1	**375**		**1.210**	
500	0 : 1	**415**		**1.180**	✓ Light buffer blocks with only insulation effect.
550	0 : 1	**455**		**1.150**	
600	0 : 1	**495**		**1.110**	
700	1 : 1	**320**	**320**	**1.140**	✓ Insulating masonry blocks.
800	1 : 1	**365**	**365**	**1.120**	
900	2 : 1	**280**	**560**	**1.030**	
1000	2 : 1	**315**	**630**	**0.960**	
1100	2 : 1	**345**	**690**	**0.880**	✓ Panels for civil and industrial buffer. ✓ Cast in situ of vertical walls.
1200	3 : 1	**290**	**860**	**0.800**	
1300	3 : 1	**310**	**930**	**0.720**	
1400	3 : 1	**330**	**995**	**0.640**	
1500	3 : 1	**360**	**1075**	**0.560**	
1600	3 : 1	**380**	**1145**	**0.480**	

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