

FP1 – AIR ENTRAINING ADMIXTURE

Designation: FP1

Data Sheet No. 413

Product: The admixture is used for polystyrene concrete production according to SIRCONTEC production procedures and in SIRCONTEC machines.

Use: For production of SIRCONTEC PsB 40, PsB 50 polystyrene concrete and other modifications. It produces a homogenous mixture lightened with polystyrene particles and tiny air bubbles (cells).

Description: Light yellow liquid.
Cement milk is extremely lightened by creating optimum air bubbles in it .
FP1 is dosed with mixing water or using its own dosing device.
It is recommended not to exceed mixing time of a fresh mixture with the admixture 45 seconds.
The following affects the content of air bubbles: concrete composition, ambient temperature and temperature of the structure, consistency, cement type, total content of fine particles, mixing time and method. Creation of bubbles is slowed down especially at high temperature.
Taking the aforementioned effects into account, the admixture dose must be checked before use.

Physical and chemical properties:

Setting point:	about 0 °C
Boiling point:	about + 100 °C
Density at 20 °C:	about 1.01 g/cm ³
Water solubility:	unlimited

FP1 is not either explosive or inflammable.

Processing: On MS 1000 type machine – see the SIRCONTEC Data Sheet No. 011.1.

FP1 is dosed together with the mixing water.

Recommended dosage:	0.01—1.5 % of cement weight - acc. to a required effect
Permissible quantity:	15 ml/kg of cement

Quality control:

FP1 production is controlled by a system according to EN ISO.
Quality control of the produced polystyrene concrete being produced is controlled by Control Procedures supplied by SIRCONTEC together with the equipment.

Storage: FP1 can be stored in closed original containers at temperature above 0 °C.
FP1 must be stored separated from foodstuff and feedstuff.

Cleaning: Tools are cleaned with clean water. Rinse dirty surfaces with clean water.
Used packages should be liquidated in a prescribed manner. They must not be liquidated together with municipal wastes.

Safety and hygiene:

Basic rules for health protection during work with chemicals must be followed when using FP1.
Eyes and skin must be protected during work. When affected, rinse them with clean water. When complications are detected, search for a doctor. It irritates conjunctivae when eyes are affected.
Wash your hands after finishing the work.
Protection of respiratory paths is not required when using it adequately.
Rubber or PVC gloves are recommended for hand protection.
Rinse your mouth and drink sufficient quantity of water (1/4—1/2 l) and search for a doctor after digesting it.
Prevent it from leakage into a sewer and ground; if leaks occur, use substances binding chemicals, sand or sawdust.
When accidental leaks occur, no hazardous decomposition products are released from FP1.

Valid: from 1.12.2014