

## FS1 – SUPER-PLASTICISING ADMIXTURE

**Designation: FS1**

**Data Sheet No. 412**

**Product:** Super-plasticizing admixture determined for foam concrete manufacture according to manufacturing processes and by means of SIRCONTEC equipment.

**Utilization:** SIRCONTEC foam concrete while using Portland cement classes CEM I and II, dry mixtures produced per SIRCONTEC instructions and foam-making concentrate FN1.  
The purpose of utilization is achieving faster start-up of initial strength of the foam concrete.

**Description:** Softly creamy, almost brownish fluid with very mild specific smell.  
The effect of achieving faster start-up of the initial strength depends on the ambient temperature, temperature of the structure and on the class of cement.  
Further data—see Safety sheet FS1.

### Physical and chemical characteristics:

pH value of undiluted FS1 at 20°C:	about 7
Solidification point:	about 0°C
Boiling point:	about +100°C
Density at 20°C:	about 1.03 g/cm <sup>3</sup>
Solubility in water:	unlimited

SIRCONTEC FS1 is neither explosive nor flammable.

**Processing:** In the equipment of MS 1000 type – see the Data Sheet SIRCONTEC No. 011.1.

It is dosed together with gauging water:

Recommended dosing:	0,2 – 1,4 % of the cement weight—according to the required effect
Permissible amount:	1,6 ml/kg of cement

### Quality control:

Production of FS1 is controlled by EN ISO standards.  
Quality control of the produced foam concrete is governed by Testing procedures supplied by SIRCONTEC together with equipment.

**Storage:** Storage of FS1 is allowed in closed original vessels at temperatures above 0°C.  
FS1 is to be stored separately from food and fodder.

**Cleaning:** Tools are cleaned with pure water. Rinse dirty surfaces with pure water.  
Used containers are to be disposed of in a determined manner. Disposal together with the municipal waste is not allowed.

### Safety and sanitary regulations:

When handling FS1 it is necessary to observe the basic health protection rules valid or manipulation with chemicals.  
At work it is necessary to protect eyes and skin. Rinse afflicted area with pure water. See doctor in case of complications. When eyes are afflicted, it causes conjunctiva irritation.

Wash hands after the work.

Protection of respiratory system is not necessary with adequate measure of inhalation.

It is recommended to protect hands with rubber or PVC gloves.

If consumed, rinse your mouth thoroughly, drink sufficient amount of water (1/4—1/2 l) and see a doctor.

Avoid penetration into sewerage or ground, in the case of leakage use chemicals-bonding substances, sand or saw-dust.

In the case of random leakage of FS1, there are no dangerous decomposition products released.

Validity: from 1.12.2014