

POLPLAST 1107p

PLASTICIZER AND WATER REDUCER FOR CONCRETE

(Meets the requirements of EN 934-2, classified as “water reducing/plasticizing admixture” according to Table 2)

GENERAL CHARACTERISTICS

POLPLAST 1107p is a chloride free, liquid, improving admixture, based on specially modified Ligno-Sulphonates, that provide concrete with rheoplastic as well as waterproofing properties. It offers increased plasticity and workability when added into the preparation water of the concrete.

- Certified as “water reducing/plasticizing admixture” according to Table 2 of EN 934-2. Meets the requirements of ASTM C-494 (Type A).
- It also performs as a waterproofing agent as it facilitates the compaction of concrete. Greater density increases the water impermeability against surface water pressure or capillary absorption.
- It reduces the water demand, thus the water/cement ratio, when added into the preparation water, increasing -at the same time- the rheoplastic properties of the concrete.
- The reduction of water demand leads to increased initial and final strength.
- When added into the ready mixed concrete, it increases the slump, without further addition of water.
- It is free of chlorides and other corrosive ingredients and it doesn't have an air-entraining action.
- Compatible with all kinds of Portland cement.
- Higher dosage than the recommended, might lead to set retarding effects without affecting the final strength.
- Fields of application: ready mixed or precast concrete, surfaces exposed to water, such as foundations, basements, swimming pools, tanks.

TECHNICAL DATA

Appearance:	Homogenous Liquid
Color:	Dark brown
Density:	1,130 ± 0,03 gr/cm ³
pH:	8,8 ± 1
Total chlorine:	< 0,1% by weight
Water soluble chloride:	< 0,01% by weight
Alkali content (Na ₂ O):	2,9% by weight

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Indicative examples of the action of **POLPLAST 1107p** are shown below:

PERFORMANCE OF POLPLAST 1107p		
PROPERTIES	REFERENCE CONCRETE MIX (CEMENT TYPE CEM I 42.5N, EN 480.01)	TEST MIX (0,5% Polplast)
COMPRESSIVE STRENGTH AT 7 DAYS (Mpa)	32	35,9
COMPRESSIVE STRENGTH AT 28 DAYS (Mpa)	39,7	44,0
WATER REDUCTION	-	5,5%

APPLICATION

POLPLAST 1107p is added into the mixing water during the preparation of concrete, either in the production plant or on site. In case the admixture is added into the ready mix, just before use, precaution must be taken so that uniform dispersion is achieved.

CONSUMPTION

- 0,2-0,5 kg **POLPLAST 1107p** per 100 kg of cement, depending on the ambient temperature and specific conditions of the project, the type of cement and aggregates.

PACKAGING

Supplied in plastic drums of 4kg and 20kg, barrels of 200kg and containers of 1000kg.

STORAGE

At least 12 months in unopened containers in dry places with minimum temperature 5°C.

REMARKS

- **POLPLAST 1107p** must not be poured straight on dry cement and aggregates.
- Concrete components (aggregates, water and cement) should be mixed in temperatures higher than 0°C.
- Concrete's surface must be protected during setting against frost, in order to avoid cracking and low final strength.
- Accidental overdosing will have as a result the extension of setting time. During this period, the concrete must be kept moist in order to prevent premature drying out.
- **POLPLAST 1107p** is compatible with other POLAT admixtures and air entraining products, but testing prior use should be done to determine performance.

CAUTION

Skin or eye contact must be avoided, otherwise wash carefully with soap and water.
For more information consult the material safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of POLAT S.A.

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