



# ROC FLUID

## PLASTICIZER FOR CONCRETE

### DESCRIPTION

**Roc fluid, synthetic product, is a powerful plasticizer that improves the placing of concrete while reducing the quantity of water required for mixing and increasing the mechanical strength. Following are the advantages offered by the physico-chemical action of Roc fluid :**

#### 1. In fresh concrete :

- Considerable increase in the fluidity of concrete facilitating its workability
- Improving the ability to pump concrete

#### On hardened concrete :

- Increased mechanical strength
- Greater compactness.

#### 2. In cured concrete :

- Energy saving (heating, vibrations, equipment)
- Improve the rotation of formwork.

**Roc fluid is compatible with all types of cements with the exception aluminous binders.**

### COSUMPTION

Recommended range of usage: 0.6 to 1.5% of the weight of cement or 0.5 to 1.25 litres for 100 kg of cement.

### METHOD STATEMENT

Roc fluid is used at the rate of 0.6 to 1.5% of the weight of cement, depending on its domain of application, the category of cement used and the climatic conditions. Depending on the production site of concrete, we recommend the following uses :

- **Worksites and prefabrications:** Roc fluid should be added at the beginning of last third of mixing time after the end of introduction of mixing water.

- **Premixed concrete: Roc fluid** is added to the concrete in the mixer truck, at the worksite. Mix at high speed during minimum one minute per m<sup>3</sup> of concrete.

- **Fibre concrete:** Consult the technical datasheets of processes: **Proroc NT - Roc fibres - ROC fibres HT...**

Please note the following points:

- Period of efficacy in the range of half an hour at 25°C. For the same dosage, the effect will be greater in winter and lesser in summer.
- Do not add water to the fluidised concrete. If required, a dose of Roc fluid may be added.
- An excess of fluidification may lead to delayed setting of concrete.

### INSTRUCTION OF USE

Roc fluid offers two particular advantages:

#### Easy handling

Property of converting a firm or plastic concrete (cone 3 to 7 cm) into fluid or very fluid concrete (cone from 15 to 20 cm) while preserving its strength.

The concrete is placed very easily with a light vibration. Careful rodding is necessary if you are not vibrating.

**Roc fluid** is recommended in this case for concrete with very dense armature:

- Building: floors, beams, pillars, panels, slabs
- Civil engineering: structures, tanks.

#### Strength

Improvement of strength and ease in handling with reduction of partial water (5 to 10 %) and a dosage in **Roc fluid** of 0.6 to 5 % of the weight of cement. Roc fluid also allows improving the placing of concrete by increasing the strength at the same time (15 to 40 %) through the association of these two effects.

**Roc fluid** is used in these two cases for:

- Reinforced concrete, all performances
- Prefabricated concretes (cured or not)
- Fibrous concrete.

### TECHNICAL SPECIFICATIONS

**Appearance:** dark brown liquid

**Density:** 1,2 ± 0,01

**Viscosity at 20 °C:** 32 mPa.s ± 0,01

**Complying with standard:** NF EN 934.2

**Chlorine Content:** < 0,1 %

### PACKAGING

- Jerry can of 10 l (12 kg)
- Drum of 200 l (240 kg)
- Container of 1000 l (1200 kg)

The product can be stored during three years in its original packing, in a closed room protected from humidity and frost. In case of extended frost, check that the product has not become unstable.

### HEALTH AND SAFETY

Product non-regulated, not dangerous.

Consult our safety datasheet

#### Legal note:

Owing to the different materials, substrates and differing working conditions, no guarantee in terms of result or adhesion for whatever reason and/or legal nature can be assumed by RCR Production France. Please note, the documentation of this technical data sheet can vary depending of the respective country. Note the abroad relevant product data sheet. For the rest, the most recent general terms of business of RCR Production France can be requested from us or viewed, in their most recent version, at [www.rocland.eu](http://www.rocland.eu) and printed out.

We reserve the right to make changes to the product specifications.

**Manufacturer:**

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