



# ROC PO FLUID

## SUPERPLASTICIZER IN POWDER FORM FOR CONCRETE

### PRODUCT DESCRIPTION

**Roc PO fluid is a superplasticizing additive in powder form for obtaining high quality concretes (waterproof, durable and mechanically strong).**

**Because of its workability, the concrete treated with Roc PO fluid is easy to apply without excess of water for mixing and develops high level of mechanical properties after setting. Roc PO fluid is particularly suited for the cases where a high workability is desired with a low cement to water ratio.**

The domains of application are :

- Concrete for slabs
- Concrete meant for structures with a strength higher than 25 MPa after 28 days.

Roc PO fluid is compatible with additives for concrete :

- Roc accelerator
- Roc HP.

### INSTRUCTION FOR USE

The action of **Roc PO fluid** is optimal if the cement and the aggregates are already wetted.

It is preferable to mix in the additive at the worksite just before casting the concrete. The maximum effect of the additive can then be obtained. In this case, the concrete must be brought to the point of pouring and the doses of **Roc PO fluid** are then introduced. The concrete should be mixed at high speed for at least 1 minute per m<sup>3</sup> of concrete. It is important to make sure that the mixture is quite homogenous before casting the concrete.

### TECHNICAL SPECIFICATIONS

**Appearance:** brown powder

**Density at 20° C:** 1,1 ± 0,1

**Dry extract:** 100 %

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

### ADVANTAGES OF SUPERPLASTICIZER

The action of **Roc PO fluid** allows achieving the following objectives :

- Reducing the quantity of mixing water (compared with concrete without additive) while providing the same workability. We can note an increased mechanical strength, waterproofing and consequently, improved durability of concrete.
- Improving the fluidity of high quality concrete, making it easier to apply.
- Optimising the composition of concrete : Proportion of cement, reduction of shrinking, reduction of heat release from addition of water and reduction of creep.

The efficacy of **Roc PO fluid** depends on the dosage chosen.

Depending on the desired objective (increased characteristics, improvement of workability and optimisation of the dosage of cement), the dosage of **Roc PO fluid** may vary from 0.5 to 1 kg/ m<sup>3</sup> of concrete.

Considering the diversity of cements and aggregates, it is necessary to verify through a test of suitability the optimum dosage for obtaining the desired characteristics.

### PACKAGING

- Water soluble dose of 0.5 kg
- Indivisible carton of 40 doses (20 kg)

**Roc PO fluid** can be stored during 12 months in its original packing in a closed room sheltered from humidity and frost.

### CONSUMPTION

Recommended dosage: 1 to 2 doses per m<sup>3</sup> of concrete..

### HEALTH AND SAFETY

Product not 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.