

## SOIL PLAST

## Plasticizer additive and water reducer for concrete

### PRODUCT DESCRIPTION

**Soil Plast** is a liquid plasticizer additive and water reducer for ready-mix concrete.

### APPLICATION FIELDS

**Soil Plast** is especially suitable for concretes intended for pavements and industrial floors, as well as for ready-mix and pumpable concretes. Some application examples include:

- Quality ready-mix concrete for structures with compressive strength greater than 20 MPa.
- Ready-mix concrete for watertight structures: treatment plants, reservoirs, channels, tunnels, etc.
- Concrete for mass pours where it's necessary to reduce thermal gradients resulting from cement hydration heat, such as in dams, pillars, slabs, etc.

### TECHNICAL CHARACTERISTICS

**Soil Plast** is an aqueous solution of active products capable of dispersing the cement particles. Whatever the objective (increase of properties, greater fluidity, reduction of cement dosage), it is possible to control these characteristics by varying the dosage between 0.2% and 0.8% in relation to the weight of the cement: the higher the dosage, the greater the effect.

### APPLICATION METHOD

It is preferable to add **Soil Plast** at the concrete plant after the introduction of the other components (water, cement, aggregates, and additives). The additive's action is more effective the later the mixture occurs. The action of **Soil Plast** is maximized if the cement particles and aggregates are pre-moistened, and minimized if the additive is introduced into dry solids that absorb part of the product (especially if the aggregates are porous), partially reducing its effectiveness. A good practice is to start adding the additive with an automatic dispenser when at least half of the planned mixing water has been introduced.

### COMPATIBILITY WITH OTHER PRODUCTS

The **Soil Plast** additive is compatible with other products for the production of special concretes, especially:

- The **Soil Plus** line with air-entraining agents for concrete resistant to freeze-thaw cycles.
- **Soil Plus Releaser** release agent for concrete form removal.
- **Soil Curing** to protect concrete structures from rapid water evaporation.

### DOSAGE

Weight dosage:

From 0.2 to 0.8 kg for every 100 kg of cementitious material.

Different doses from the suggested ones must be previously tested through concrete trials, and it is also recommended to consult the Technical Assistance Department of the Soil team.

### PACKAGING

**Soil Plast** is available in 230 kg drums, 1000 kg containers, and in bulk upon request.

### STORAGE

**Soil Plast** can be stored in its sealed packaging and protected against freezing for up to 12 months.

## TECHNICAL DATA (characteristic values)

### INDICATIVE PRODUCT DATA

|  |  |
|--|--|
| Consistency:                                       | liquid   |
| Color:   | dark brown                                     |
| Density according to ISO 758 (g/cm <sup>3</sup> ): | 1,18 ± 0,03 a +20°C                            |
| Main action:                                       | water reduction and/or increase in workability |
| pH according to ISO 4316:                          | 8,5 ± 2,0                                      |

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Soil Plast** is not considered hazardous according to mixture classification regulations. It is recommended to use gloves and protective goggles, in addition to taking the usual precautions when handling chemicals. For more complete information on the safe use of our products, please refer to the latest version of our Safety Data Sheet.

### WARNINGS

The above information and guidelines, while reflecting our best experience, should be considered as merely indicative and subject to confirmation through practical applications. Therefore, anyone intending to use this product must first ensure that it is suitable for the intended use. In any case, the user will be fully responsible for any consequences resulting from its use.