

## BETONTOP

Fibre-reinforced concentrate for low thickness floors (2.5-6 cm)

### Description

BETONTOP is a multifunctional product formulated for the creation of low thickness concrete flatwork from 2,5 to 6 cm.

BETONTOP is composed of a mixture based on siliceous aggregates, fibres, super plasticising additives, anti-shrinkage and anti-efflorescence agents. Sand and aggregates are added to the concentrated product on site.

### Fields of use

- Restoration of internal and external concrete flatwork
- Low thickness stamped concrete
- Industrial floors
- Herringbone ramps
- Decorative flooring

### Mixture properties

- Excellent workability, similar to that of traditional concrete
- High resistance to freeze-thaw cycles compared to traditional concrete.
- Greater resistance to compression and flexion.
- Reduced quantity of water and consequent increase in performance.
- Homogeneity of result.
- No additions other than sand and aggregates to be made.
- Easy to use

### Technical information

Description	Standard	Value
Pull off Ideal Bond + Betontop on a concrete background	UNI EN 1542	2,00 N\mm <sup>2</sup>
slump (quantity of water as per technical data sheet)	UNI EN 206	S3
Volumetric Mass (Fresh)	UNI EN 1235/6	2.350 kg\m <sup>3</sup>
Compression Resistance after 1 day	UNI EN 12390/3	13 Mpa
Compression Resistance after 7 days	UNI EN 12390/3	31,7 Mpa
Compression Resistance after 28 days	UNI EN 12390/3	43,7 Mpa
Flexural Resistance after 28 gg	UNI EN 12390/5	5,5 Mpa
Hydraulic shrinkage after 7 gg	UNI EN 6555	120 μn\m
Hydraulic shrinkage after 28 gg	UNI EN 6555	300 μn\m

The technical data of the tests may vary if the aggregates, type of cement and water-cement ratio are changed.

Based on these results, the screed made with BETONTOP Ideal Work was found to be, in accordance with UNI 11104 and UNEN EN 206 \ 1, suitable for the following exposure classes:

- XC4 (external floors subject to dry and wet cycles);
- XA1 (floors subject to weak chemical attack);
- XF3 (external floors subject to freeze-thaw cycles).

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### **Surface preparation**

The concrete substrate must have a minimum compressive strength of 25 N/mm<sup>2</sup> and at least 1.5 N/mm<sup>2</sup>. It must be prepared with a mechanical key by milling or simply washed at high pressure if the surface is already rough. It must also be clean, free of grout, grease or friable materials and other contaminants.

The day before installation, the substrate must be soaked to avoid flash setting. Before application, remove any pools or standing water.

### **Ideal-Bond mixture**

Add approximately 6-7 L of water for each 25kg bag of IDEAL-BOND and mix for about 3 minutes with a low speed mixer until a plastic consistency is reached. Do not exceed the amount of water indicated.

Apply the mixture on the wet base using a hard bristle broom with a consumption of 2 Kg per m<sup>2</sup>.

Immediately apply the BETONTOP mixture "fresh on fresh". If IDEAL-BOND dries too quickly, another coat must be applied.

### **Mixture and consumption**

BETONTOP can be mixed directly in the mixer with cement, sand and aggregates. Basic proportions are:

- 1 Part BETONTOP
- 1 Part Sand 0-6 mm
- 2 Parts Cement Grey 425
- 7 Parts Aggregate 5-15 mm (the size may vary depending on the thickness)
- Water / cement ratio not higher than 0.48 (11-12 L per 25 Kg bag)

The parts are expressed in Kg.

To obtain the best mix, insert the components into the mixer in the following order: aggregates, 50% of the total water, Betontop, cement, 30% of the water, sand and the remaining 20% water.

Aggregates must be washed and cleaned prior to use.

This formulation can be varied according to the aggregate size and site requirements. Consult the Ideal Work technical service for more information.

Indicative consumptions for a 1 cm thick mixture made using the basic formulation:

BETONTOP	2 Kg per m <sup>2</sup>
CEMENT	4 Kg per m <sup>2</sup>
SAND 0-6 mm	2 Kg per m <sup>2</sup>
GHIAIA 5-15 mm	14 Kg per m <sup>2</sup>

Working temperature between 5°C and 28°C.

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### **Low thickness floors**

Once the mix is applied, BETONTOP is worked as normal concrete casting. It is therefore possible to apply the hardener, then release agent and print the surface (low thickness moulded floor) or apply the IDEAL FLOOR hardener to create a normal industrial floor, a decorative surface or a herringbone ramp using mechanical trowels and hand tools.).

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### **Joints and curing**

The existing joints on the mother slab must be respected and therefore must also be reflected in the new adhered surface. The new surface will always follow the movement of the existing. For this reason, the joints must be cut as soon as possible after installation of the BETONTOP.

Like all concrete floors, it is necessary to provide adequate curing with water-based IW CURE or solvent-based CURING. Consult the Ideal Work technical service for more information.

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### **Related products**

- IW-EC
- IW-CURE
- CURING
- Cement-Scud protective shield

Consult the respective data sheets.

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### **Packaging**

BETONTOP is supplied in 25 kg bags.

Stored in a dry place in its original packaging, it has a minimum shelf life of 12 months

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### **Warnings**

Please consult IDEAL-BOND data sheets before use.

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**IMPORTANT**



# Data Sheet

All information contained herein is based on the best and most recently available practical and laboratory testing. It is the customers responsibility to determine that the product is suitable for their chosen application. The manufacturer assumes no responsibility for the results of incorrect applications. You should always test on a small area before full scale application. This document replaces all previous versions. The data can be changed at any time. Also note that the products are intended for professional use only. Ideal Work provides training, updates and refresher courses for their regular customers on request. Anyone using these products without being enabled does so at their own risk.

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