

# BETONTOP

cod. IW-BETONTOP

## Fibre-reinforced concentrate for low thickness floors (2.5-6.0 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\m³
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

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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 UNU 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).

#### APPLICATION

PREPARATION OF THE SUBSTRATE

The surface to be treated must be free from oil stains, waxes, paints, resins and any other products that may hinder the penetration of the binder.

A base slab of at least 1.0 Mpa for pull-off strength is required.

The concrete substrate must be previously scarified or processed with TEXTURE-BROOM or similar during casting.



Before application, wash thoroughly with a high-power pressure washer. Wet the surface to be treated with water

APPLICATION OF THE IDEALBINDER-MIX PRIMER

Mix IDEALBINDER thoroughly and mix with cold water in a proportion of 1:3.

Then add to the solution 2 parts by weight of cement to a part of liquid and then spread the mixture evenly with a broom.

The substrate must contain the appropriate number of control joints which, in the subsequent casting, must be respected.

Any cracks must be previously repaired with Epoxy-Coat.

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#### 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 O-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 m²
CEMENT	4 Kg per m <sup>2</sup>
SAND 0-6 mm	2 Kg per m²
GHIAIA 5-15 mm	4 Kg per m <sup>2</sup>

Working temperature between 5°C and 28°C.

#### 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.).

#### 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
- IDEALBINDER10 IDEALBINDER25

Consult the respective data sheets.

#### PACKAGING / STORAGE / DISPOSAL

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.

#### PRECAUTIONS

Please consult safety data sheets before use.

#### IMPORTANT

The applicator notes that Ideal Work is in no way responsible for the suitability of the solution chosen in relation to:

A) Substrate suitability, climatic conditions or any other external parameter which may affect the performance of the Ideal Work products being used.

B) The stresses to which Ideal Work products may be put under operation.

It also notes that the indications provided by Ideal Work in its technical documentation are to be considered a necessary condition but do not in any way relieve the contractor of the responsibilities and technical evaluations of the applicator. The data can be changed at any time. Also note that the products are intended for professional use only.

The manufacturer disclaims any responsibility for the achievement of the services declared for the system and for the success of the work if it is not used in accord with its instructions. The manufacturer disclaims any responsibility for the achievement of the services declared for the system and for the success of the work if it is performed even partially in contrast with these guidelines or with products not covered by them.

The manufacturer also declines any responsibility for the aesthetic aspect of the flooring which depends on the installation methods, working times and climatic conditions of the site. The applicator must take these into account when scheduling and applying the materials supplied by the manufacturer.