

# Bonding Agent®

## SOLUTION FOR LOW THICKNESS CASTINGS

FOR PROFESSIONAL USE ONLY - REVISION DATE : 18 APRIL 2018

**Bonding Agent® is a multipurpose product formulated for use as a bonding agent when pouring new concrete over existing and also as an admixture for all types of cementitious structural repairs and resurfacing projects. When Bonding Agent® is mixed with common Portland cement and various sized aggregates, it will create a tenacious bond to any structurally sound cementitious substrate. Bonding Agent® is used for structural repairs as well as thin-set resurfacing product. Bonding Agent® gives Portland cement unique properties that are unattainable by any other bonding agent, admixture or Portland cement modifier. When added to Portland cement and sand (in accordance with Ecobeton product specifications), Bonding Agent® provides superior adhesion and flexibility and allows the user to apply materials at any depth or thickness.**

### Properties

- Proprietary blend of no-emulsifiable water based copolymer
- Co-adhesive bonding
- Waterproofing additive
- Ready-mixed
- Multi-purpose
- Concrete additive
- Low VOC content
- Reduce moisture and vapour pressure on floors and slabs

### Application

Before any Ecobeton products are applied over concrete, the slab must be free of sealer, any type of curing compounds and bond-breakers.

#### Used as a bonding agent:

Mix using a drill and paddle mixer attachment and prime surface by sprayer, brush or broom.

#### For resurfacing:

Mix using a drill and paddle mixer attachment. Add **Bonding Agent®** to cementitious mixture instead of water until desired consistency is reached.

#### Used as an adhesion slurry:

1. Mix **Bonding Agent®** with Portland cement in ratio 1:1.
2. Apply the slurry on the damp support using a scrubbing brush.
3. Before **Bonding Agent®** slurry dry, apply the coating.

The mixture with Bonding Agent has to be wet during the application of the subsequent coating, otherwise apply again the slurry.

#### Used in the admixture:

1. In a bucket prepare the dry part (sand, cement, and aggregates as needed) and, separately, prepare the liquid part (premix) with **Bonding Agent®** and water following the instructions on the back.
2. Add the dry part premix to the bucket containing the premix and mix until desired consistency is reached.

3. Before applying, we recommend pre-treating the support with mixture of cement and **Bonding Agent®** as described in the preceding paragraph.

4. Perform repair/coating of the surface.

### Uses

- Low thickness coating additive.
- Concrete additive for floor restoration/levelling.
- Vertical and overhead application.
- As a bonding agent on gypsum-based substrates (i.e anhydrite screed, plasterboard).
- As an adhesion slurry.

### Technical data

Appearance	Milky white liquid
Shelf life <sup>1)</sup>	12 months
Packaging	5 kg and 20 kg bucket - 1 kg bottle
Coverage rate	Consult the tables

1) Stored in original sealed containers at temperature between 10°C and 25°C

### Warnings

Temperature: **Bonding Agent®** has to be applied only when surface temperature is above 5°C. On external surfaces, do not apply when precipitation is expected within 24 hours following of application. Do not expose the material to frost.

#### Note:

The information contained in this sheet is accurate to the best of our current knowledge. The products are of the highest quality and uniform within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied is made as to the effect of such use and no liability is assumed directly or indirectly from their use. Buyers and users are encouraged to carry out their own test prior to application.

## Doses

### Recommended doses for 1 cubic meter of mixture

Approximate thickness (cm)	Coverage rate approx. (m)	Bonding Agent (kg)	Cement (kg)	Sand (kg)	Gravel (kg)	Maximum diameter of aggregate
0 - 1	100	80	450	1350	0	2 mm
2 - 4	25 - 50	60	400	950	550	8 mm
5 - 6	18 - 20	40	350	950	1050	16 mm

### Doses per parts

Approximate thickness (cm)	" Pre-mix"		Portland cement I/II Mix with silice sand and gravel			
	Partts of Bonding Agent	Parts of water	Parts of cement	Parts of sand	Parts of gravel	Maximum diameter of aggregate
0 - 1	1	0	1	3	0	2 mm
2 - 4	1	1	1	2	1	8 mm
5 - 6	1	3	1	2	2	12-16 mm

### Coverage rate

As adhesion slurry	As bonding agent
Mixed 1:1 with Portland cement 200 g/mq	i.e.. plasterboard 120 g/mq

For more details visit website:  
[www.ecobeton.co.uk](http://www.ecobeton.co.uk)  
e-mail for technical support:  
[info@ecobeton.co.uk](mailto:info@ecobeton.co.uk)

Ecobeton Italy is a company certified with ISO 14001 environmental management system.

# ecobeton

Ecobeton UK Ltd  
Suite 7000 Kemp House 152-160 City Road E info@ecobeton.co.uk  
London, EC1V 2NX | www.ecobeton.co.uk