Specification for

THIN BED WORK STAMPED FLOOR

To be read with Preliminary/General Conditions

Types of finish	
Drawing reference	
Location/project	
Product Reference	Ideal Work Stamped / Imprinted Floor created using Betontop®, Colour Hardener®, Releaser®, Ideal Sealers® and a range of imprinting tools
Manufacturer Ref.	Ideal Work S.R.L, Via Kennedy 52, 31030 Valla Di Riese PioX (TV) Italy Tel: +39 0423 4535 Website: www.idealwork.com

PROPRIETARY DYEING SYSTEM TO TO CONCRETE /MICROTOPPING /ARCHITOP SURFACES

1 SUB-BASE PREPARATION

1. Substrate should remain stable and be provided with any expansion, contraction and crack inducement joints necessary.
   Cracking, unevenness and faults in the substrate may be reflected through surface. Joints in the surface should mirror those of the main slab.

2. The concrete base to receive the Ideal Betontop® must have a compressive strength of at least 25 N\mm2, and the surface must be prepared by previous etching, milling, grit blasting or high-pressure washing etc. The surface to receive IDEAL BETONTOP® must be free of all dirt, stains, oils, adhesives, previous sealers and other contaminants. All cracks should be repaired to avoid transference through the topping, and the surface left uniform and rough or porous. Good preparation of the substrate is essential. The surface strength(Pull-Test) of the surface must be at least 1.5 N/mm2.All surfaces must be thoroughly washed and cleaned one day before the placement of the IDEAL BETONTOP® topping. They must be clear of any standing water, although they have to remain damp when IDEAL-BOND® is applied, in order to limit water absorption from the bonding material by a dry substrate.

3. IDEAL BOND® APPLICATION:To a 25kg bag of IDEAL-BOND®, add approximately 6-7 litres of water and mix for approximately 3 minutes with a low-speed mixing drill, until asuitable plastic consistency is established. Do not use excessively wet material. Apply IDEAL- BOND® by means of a hard-bristle broom. Recommended thickness is 1-2 mm to a surface which must not be excessively wet.

2 BETONTOP® APPLICATION

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
7 parts cleaned and washed aggregate 5-15 mm (the size can vary on the thickness of the floor).
Quantities are expressed in kg's.

When mixing, first add 50% of the aggregates followed by 50% of the water, then the BETONTOP®, then the cement and finally the remainder of the aggregates and water.
The recommended maximum water/cement ratio is 0.48 so add maximum 22-24 litres of water per 50 kg of cement.
This formulation may vary depending on the aggregate particle size, the performance sought and the requirements of the designer/client.
We recommend working with a minimum thickness of 2,5 cm up to 6,0 cm Working temperature: higher than 5°C but lower than 28°C. In the case of overlayment application, 'fresh on hardened', the existing joints must be mirrored through to the new surface. Joints must be cut as soon as possible to avoid the risk of 'plastic' shrinking. Betontop should be cured for a minimum of 3 days.

Consult IDEAL WORK if there are any doubts.

3 APPLICATION OF COLOUR HARDENER®

Colour Hardener® should be applied to the surface of freshly placed concrete only once the bleed water has disappeared and the floating process does not disrupt the level of the slab.
Colour Hardener® must never be used to dry excess bleed water.
Colour Hardener® must be broadcast uniformly across the surface using the dry shake method. This is done in two applications.
2,5kg/m2 of the material should be used in the first pass, with the 1,5 kg/m2 being applied in the same manner but at a 90-degree angle to the first. When the material darkens slightly from

the absorbed moisture, it should be floated using an alluminium floats.Care needs to be taken not to tear through the surface of the hardener to the underlying concrete.
Do not apply more hardener until the moisture from the underlying concrete has been completely worked through the hardener. Once the final shake has been applied, the surface should be floated then hand or machine trowelled. To prevent burning or darkening of the surface, hard steel trowelling should be minimized, especially around joint lines and edges.
Volume yield of material will depend on colour choice and the final use of the slab. Lighter colours will require more material to be used than darker colours. It is recommended that the total of m2 being completed in each pour is calculated and the correct number of pails placed equally around the slab in advance of application.

4. APPLICATION OF POWDER RELEASE AGENT®

Immediately prior to imprinting, Powder Release Agent® should be broadcast evenly across the surface with the special paint-brush by the dry-shake method, normally in one broadcasting operation (shake). Imprinting is now possible.
After the concrete has achieved an initial set, as soon as the next day in hot climates and as long as ten days in cold climates, the release agent may be removed by pressure rinsing with a high-power pressure rinser (hydrocleaner) and floor buffer machine.
Care should be taken not to remove all powder release agents from the concrete, especially from grout lines and deeper indentations. Powder release agent should be periodically cleaned from the stamp mats with PULISTAMP, a professional and specific cleaner, to prevent any possible build up. A good hand cleaner will properly remove the Powder release agent from hands.
NB: Release Agent® should not be used as the primary colouring method. It should only be used as the secondary colour to antique the Colour Hardener®. Begin imprinting operations immediately after applying Powder Release Agent®, according to Ideal Work's written instructions.
NB: If a single colour finish is required, Ideal Liquid Release® (a clear, liquid release agent) may be used in place of Ideal Powder Release Agent.
For a perfect curing process use a curing compound such as IDEAL Cure®.

5 SEALING/ PROTECTIVE COAT

The stamped floor surface must be sealed and protected by one of Ideal Work's sealers. This choice will be determined by the use for which the stained floor is intended. If in doubt consult Ideal Work. www.idealwork.com

Option 1 Ideal Hard + Petrotex®
Ideal Hard® is a liquid densifier used to increase surface abrasion resistance by up to 127% and is brushed into the surface prior to sealing.
Petrotex® is a single-component impregnating agent that has excellent repellency to oils and liquids. This is applied in 2 coats by spray or roller.This combination is ideal for interior and exterior applications. Please note Petrotex will emit a solvent odour when applied which will be

present for several hours following application.

Option 2 Ideal Sealer R
Ideal Sealer , monocomponent acrylic sealer, applied in 2 coats by spray or roller.

6 PROTECTION OF FINISHED WORK

No foot or vehicular traffic must be permitted on the newly imprinted concrete surface.Protect the imprinted concrete surface from damage throughout the remainder of the construction period until final acceptance of the work has been granted. If a covering material is deemed necessary, the imprinted surface must remain uncovered for a minimum of four days after which it may be covered with a new, smooth, non-staining reinforced kraft curing paper. Plastic sheeting is not to be used as a curing or protective covering material.

7 GENERAL REQUIREMENTS FOR WORKMANSHIP

Basic workmanship	Comply with the relevant clause of BS8000
Before commencement of work	The contractors must make themselves familiar with and have read the latest Technical Data Sheet for the products, available on the IDEAL WORK website www.idealwork.com
Control samples	complete sample areas, being part of the finished work, in approved locations and obtain Architect approval of appearance before proceeding: (2m² of each type). Samples to be the sole responsibility of the applicator and should be made by site operatives carrying out main works.
Uniformity of colour and texture	Once samples of coatings have been approved, do not change type or proportion of constituent materials. Ensure that supplies and batch numbers of materials are sufficient and materials. Ensure that supplies and batch numbers of materials are sufficient and consistent to give uniformity of colour. Ensure uniformity of texture during application.
Admixtures	Do not use any admixtures other than those listed treatments.
Guarantee	Rendering materials and workmanship guarantees should be submitted to Contract Administrator prior to work commencing on site.
	It is strongly recommended that this system be applied only by Ideal Work trained applicators