

COLOUR-MIX

Pre-blended, coloured, fibre-strengthened concentrate for aggregate concrete surfaces SASSOITALIA®

DESCRIPTION

COLOUR-MIX is an innovative product, especially designed for the realisation of exposed aggregate concrete flooring SASSOITALIA®.

COLOUR-MIX is composed of a special fibre-strengthened mixture, based on siliceous aggregates, dye particles, special workability aids, shrink compensating agents and efflorescence inhibitors.

This special concentrated formulation makes it possible to add the cement directly at the site, thereby providing some immediate advantages:

- The material can be used for much longer as it is non-reactive
- From a basic colour, different colours can be obtained by selecting either grey or white cement
- Shipment costs are reduced

MIXTURE PROPERTIES

- Excellent workability
- Higher freeze/thaw resistance
- Wide range of colours
- High-abrasion resistance
- Can be used with the monolithic method ("fresh on fresh") and as an overlayment ("fresh on hardened") and in combination use primer IDEAL-BOND
The special formulation is designed to work with reduced water:cement ratio, so improving durability
- A smaller thickness of the coloured mix (2-3 cm) is required thereby resulting in a saving in material and skilled labour
- Flexibility of the process makes both large and small projects economic
- Homogeneous results
- Other additives are not needed
- Easy to use

TECHNICAL SPECIFICATIONS

Description	Standard	Value
Concrete adhesion with Ideal Bond	UNI EN 1542	2,00 N/mm ²
Apparent volumetric mass of wet mortar	UNI EN 1235/6	2.345 kg/m ³
Compression strength 28 days	UNI EN 12390/3	45,8 Mpa
Flexural Strength after 28 gg	UNI EN 12390/5	5,50 Mpa
Hydraulic shrinkage after 7 gg	UNI EN 6555	93 µm/m
Hydraulic shrinkage after 28 gg	UNI EN 6555	233 µm/m

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

MONOLITHIC CONSTRUCTION ("Fresh on Fresh")

Place the concrete and float as usual, leaving enough room below the finished level for the required depth of COLOUR-MIX topping.

The surface to receive the COLOUR-MIX topping should be prepared with a coarse texture by brush or other suitable texture.

When the concrete has reached an ideal consistency to allow foot traffic, place the COLOUR-MIX topping and strike at finished slab level.

Once the surface is free of any excess bleed water, float to a finish ensuring close attention at the edges, followed by a final finish using steel trowels.

OVERLAYMENT - ("Fresh on existing hard surface")

The concrete base must have a compressive strength of at least 25 N/mm², and the surface must be prepared by previous etching, scabbling, milling, grit blasting or high-pressure washing etc. The surface to receive COLOUR-MIX must be free of all dirt, stains, oils, adhesives, previous sealers and other contaminants. All cracks should be repaired so as 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 placing the COLOUR-MIX topping.

They must be clear of any standing water, although they can still remain damp when IDEAL-BOND is applied, in order to limit water absorption from the bonding material by a dry substrate.

IDEAL-BOND MIXTURE

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 a suitable 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.

After placing IDEAL-BOND, apply COLOUR-MIX topping immediately "fresh on fresh", before the primer has an opportunity to dry out. If IDEAL-BOND dries too rapidly, it will be necessary to apply a further coat of the product.

MIXTURE AND CONSUMPTION

COLOUR-MIX must be mixed directly in the mixer with the cement (white or grey or a consistent blend of both) and the aggregate. Basic proportions are:

- 1 Part COLOUR-MIX
- 2 Parts Cement
- 5 Parts Aggregate

Quantities are expressed in kg.

When mixing, first add 50% of the aggregates, followed by 50% of the water, then the COLOUR-MIX, then the cement, then finally the remainder of the aggregates and water.

We recommend a maximum 0.48 water/cement ratio, so add maximum 22-24 liters 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 site and client. Consult IDEAL WORK if there are any doubts.

For optimum results, we recommend the use of 8-12 mm aggregates. These aggregates must be washed and cleaned.

The approximate material consumption for a thickness of 1 cm, based on standard formulation (aggregate 9-12 mm), should be obtained from:

COLOUR-MIX	2.5 Kg per sqm / 10 mm thick
CEMENT	5 Kg per sqm/ 10 mm thick
AGGREGATES	12,50-13 Kg per sqm/ 10 mm thick

We recommend working with a minimum thickness of 2 cm.

Working temperature: higher than 5°C but lower than 28°C

SURFACE DEACTIVATORS

The IDEAL WORK range of deactivators comprises the following 4 versions:

- BA: water based deactivator, winter version, for aggregates size between 9 to 12 mm.
- BA-CC, water based deactivator, curing compound and rain-protection, summer version, for aggregates size between 9 to 12 mm.
- BA-CC-11, water based deactivator, curing compound and rain-protection, summer version, for aggregates size between 5 to 8 mm.
- DISAT-VERT: Deactivator for vertical surfaces, for aggregates size between 9 to 12 mm.

JOINTS

In the case of monolithic “fresh on fresh” working, it is recommended to work within established practice parameters for joint spacings. These can be marked by steel, marble or traditional types of control joints.

In the case of overlayment “fresh on hardened” working, the existing joints must be mirrored through to the new surface. Joints must be cut as soon as possible, to avoid risk of plastic shrinkage cracking.

PACKAGING

The product is sold in 25kg bags and needs to be stored in a dry place.

Shelf life: minimally 12 months from purchase.

The absolute quality of the material used and the high standard of packaging, in secure plastic containers, allow IDEAL WORK materials to be produced, packaged and delivered in perfect condition, without contamination or compromise.

IDEAL WORK cannot be responsible for any damage or contamination which occurs during transportation.

COLOURS

The product has 5 basic colours which may rise to 10 through using white or grey cement. Further colours can be obtained by blending grey and white cement or adding different colours.

BASIC COLOURS:

- PAGLIA (straw yellow)
- TERRA TOSCANA (brick red)
- SABBIA (sand)
- CAMELLO (camel brown)
- NEUTRO (colourless)

SUGGESTIONS AND WARNINGS

Please read data sheets of the products DISATTIVATORE SUPERFICIALE (Surface-deactivator) and IDEAL-BOND before use.

If the aggregates are really dry, please wet them before mixing with COLOUR-MIX and cement.

IMPORTANT:

All information contained in this data-sheet is based on the best practical and laboratory expertise. The customer is responsible for checking the product is suitable for use. The producer does not accept any responsibility arising from wrong applications. We recommend testing the products on small surfaces before use. This data-sheet replaces and annuls the previous ones. Data might be changed anytime. We also remind you that Ideal Work products are for professional use and Ideal Work provides customers with training opportunities upon request. Whoever uses these products without authorisation, shall take full personal responsibility and at their own risk.

EDITION 02.2011 Rev. 02