

## IDEAL STAINS®

### Reactive stains for concrete surfaces, Architop® and Microtopping®

#### **Description**

IDEAL STAINS® are specially formulated reactive acid stains based on metallic salts which penetrate the surface of concrete, chemically changing its colour to produce permanently coloured and variegated effects.

The coloured acidic solution containing metallic salts reacts with the alkalis contained in the concrete, Microtopping® or Architop® floor, creating the colour.

IDEAL STAINS® chemical reaction allows it to integrate and become part of an existing surface such as concrete, Microtopping® and Architop®. The resultant finish is not subject to fading, notching, cracking or peeling and is long-lasting. The appearance obtained is ideal for colouring external surfaces and internal floors, walls and artificial rocks. The result is unique for each surface and cannot be duplicated with other colouring materials.

#### **Background preparation**

##### **Curing of the substrate.**

When applying the system to new concrete, it is essential that the surface to receive the stain is fully cured before application of the stain.

Group 1: Amber, Brown, Terracotta, Ebony, Ebony2

Group 2: Turquoise, Fern green, Jade

#### **Curing period for new surfaces**

	<b>Group 1</b>	<b>Group 2</b>
On Concrete	10 days	28 days (complete hydration)
On Microtopping®	3 days	7 days
On Architop®	3 days	7 days

For copper-derived acids (TURQUISE, FERN GREEN and JADE) the curing time must be at least 28 days, until complete hydration and drying is achieved. It is extremely important to avoid leaving any type of footprint resting on the surface (i.e.: benches, vases, window frames, nylon pieces, buckets etc.) this will cause uneven curing and drying.

During the curing period it is strongly recommended to protect the surface with breathable, non-woven sheets.

#### **Do not protect the surface with nylon sheets.**

TURQUISE, FERN GREEN and JADE Ideal Stains must only be used for internal applications as they may react with water and damp causing them to darken. The underlying base must be perfectly cured (minimum 28 days), completely dry and not subject to hydrostatic pressure. If necessary, provide a vapour barrier.

## **Background preparation**

The surface must be completely free of dirt, oil, paints, moss, dust, resins, anti-evaporants, waxes, loose friable particles and other polluting substances.

Any contaminated areas must be properly treated.

Washing with acids is not recommended as a cleaning procedure as it removes the agents necessary for the ACID STAIN reaction with the surface. In the event that there is no guarantee that an adequate surface can be obtained, it is advisable **not to proceed** with the application of the product.

## New concrete

Sand with a 220 net/mesh disc then carefully vacuum the dust to allow the pores to open and facilitate the penetration of the acids.

## Existing concrete

If the surface has traces of resin, wax, treatments or contaminants it must be diamond sanded to allow the pores to open and facilitate the penetration of the stains.

Surfaces over 1 year old without treatment can be washed thoroughly with a mono brush (buffer machine) with the red disk, water and the specific detergent IDEAL OPEN, See respective data sheet for uses and instructions.

Rinse and neutralise with Liquid Neutralize a ph regulating liquid. See respective data sheet for uses and instructions.

Microtopping® and Architop® surfaces must be sanded with a 220 net/mesh disc and carefully vacuumed prior to stain application.

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## **Application**

Before proceeding with the application of IDEAL STAIN®, the floor must be perfectly dry and properly prepared as described above. It is also important to tape and protect all surfaces adjacent to the work field. The area must be demarcated and closed to traffic.

For safety and appearance, the application procedures should be programmed in such a way as to avoid transit on the wet surface.

IDEAL STAIN® can be applied pure or diluted with water to obtain less intense shades and/or in multiple coats until the desired intensity is obtained.

The colour of the IDEAL STAIN® solution can be very different from the final colour produced on the surface.

IDEAL STAIN® usually reacts visibly when applied. If this does not happen, it is possible that the surface has not been adequately prepared or the concrete is not sufficiently reactive to be chemically coloured.

The reaction time may vary based on the type of substrate and its porosity, environmental conditions, temperature, wind and humidity.

Temperatures and atmospheric conditions must be taken into consideration especially for outdoor applications. In hot, dry and windy weather conditions IDEAL STAIN® will tend to

dry faster and may require a greater quantity of product or a greater number of applications,

Reaction completion time:

- for concrete: 4 hours
- for Microtopping® and for Architop®: 2 hours

Between one application and any subsequent coat, the surface must be washed thoroughly with clean water to evaluate the colour result obtained and possibly proceed with a further product application.

After the final application and reaction time, the surface must be cleaned with a mono brush (buffer machine) with the red disk and carefully rinsed. LIQUID NEUTRALIZE will then be sprayed and the surface washed again until the rinse water is completely clean.

Avoid contact with the treated surface until the acid residue has been completely removed and the surface has been rinsed.

Rain can wash away the product prematurely and the run off could stain nearby areas or damage areas adjacent to the construction site.

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### **Colour effects**

IDEAL-STAIN® is available in 8 colours: Fern Green, Amber, Terracotta, Brown, Turquoise, Ebony, Ebony2, Jade.

Familiarity with and experience of the product will allow the applicator to obtain original chromatic effects that are unique for each project. These depend on the type of chemical composition, original mix design, porosity, age and colour of the substrate plus the mixing and application methods of the stains themselves.

It is advisable to carry out significant sample sections before general project application of the chemical stains.

Colour variations and a clouding effect are characteristic of the acid treatment and do not constitute a defect. The subsequent application of coats makes the colour darker and more intense.

The colouring of sections made at different times can have a different effect, as well as the treatment of sections of the same flooring made at different times.

IDEAL STAIN reacts with greater intensity on concrete coloured with IDEAL FLOOR hardener in its pewter colour, on fresher concrete and with concrete containing a higher cement content.

It is possible to mix IDEAL STAINS with each other or to apply different IDEAL STAINS in sequence to obtain particular chromatic effects.

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### **Coverage**

The coverage is approximately 0.20 L/m<sup>2</sup> (20-25 m<sup>2</sup> from a 5 L container) for each application of undiluted product but it can vary according to the porosity and texture of the surface, the composition and age of the concrete, the preparation and application techniques.

More applications may be necessary on more seasoned surfaces or to obtain particular colour effects.

Coverage will vary widely based on other external factors.

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## **Floor protection**

The type of protection will be chosen according to the traffic and the place of installation.

### Outdoor Backgrounds

IDEAL SEALER

IDEAL HARD Densifier (for high traffic)

PETROTEX-S®

### Interior floors

IDEAL SEALER

IDEAL PU 78 or IDEALPU WB EASY (good resistance to aggressive chemicals)

IDEAL HARD® Densifier (for high traffic)

PETROTEX-S®

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## **Maintenance**

Acidified floors should be considered decorative floors, therefore particular attention must be paid to their maintenance.

- Wash the floor with neutral detergents such as Ideal Work Perfetto.
- Never use aggressive products or substances.
- It is recommended to regularly apply the maintainer Ideal Care.

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## **Warning**

IDEAL STAIN® must be applied with a manual spray pump or with ENTIRELY PLASTIC brushes and wearing studded shoes or cleats.

All preparation and application procedures should be tested before use of IDEAL STAIN®.

IDEAL STAIN® is an acid-based product therefore it should only be used by qualified personnel. Review the prescribed safety measures and always wear a protective mask, goggles and clothing.

CONSULT THE SAFETY DATA SHEET BEFORE USE.

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### **IMPORTANT**

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 application. 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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