

# STRATUM 3D

Self-smoothing, high build, decorative, clear epoxy floor topping

## DESCRIPTION

**STRATUM 3D** is a solvent free, two component, aliphatic clear epoxy floor topping designed as a flooring overlay system to enhance and protect either the original substrate, or other colored **STRATUM** systems, it has a smooth pouring grade consistency and can be applied at thicknesses from 1 mm to 4 mm in a single layer giving a clear finish, allowing the substrate or decorative finish below to reflect through it with a high gloss finish giving bright aesthetic look that is easily cleaned.

## USAGES

- 3D bespoke graphics or artistic features that personalize the design of the floor
- As a protective coating for resin based and cement-based flooring
- On highly trafficked internal floor areas such as communal areas, shops, offices bars & restaurants

## ADVANTAGES

- Self-smoothing makes it easily laid
- High abrasion and chemical resistance
- Low maintenance costs
- Hygienic, impervious flooring, which is easy to clean
- Clear that encapsulate any artistic features beneath with a glossy finish
- Seamless show no joints and provides an excellent protection
- Designed for 3D graphics flooring works

## TECHNICAL DATA

STRATUM 3D	Typical values
Mixed Appearance	Clear
Solid Content	100%
Compressive Strength @25°C – @day 7	60 N/mm <sup>2</sup>
Flexural Strength @25°C – @day 7	30 N/mm <sup>2</sup>
Pot Life @25°C (ASTM D2471)	20 min
Initial Hardness	24 hours
Full Curing	7 days
Adhesion of epoxy	1 MPa
Mix Ration	2(A):1(B)

## USAGE INSTRUCTIONS

### 1. Surface preparation

All substrates shall be sound, clean, free from dust, grease & oil, dirt, the concrete wet substrates should be sponged-dried to remove all free surface water.

Concrete surfaces particularly if new, should be fully cured with a maximum residual relative humidity (RH) of 75%, clean and free from contamination such as dust, oil, grease, organic growth, release agents & curing compounds.

### 2. Priming

Usually priming is not required prior to using **STRATUM 3D**, however if applied on as a protective coating concrete floor apply **PIOPRIME 38** or **PIOPRIME 62** depending on concrete porosity, ensure that the surface to be primed is clean, dry and free from oil, grease or other contamination.

### STRATUM 3D

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### Coverage

1 liters/m<sup>2</sup>/1mm

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish a practical estimation to material consumption.

## STANDARDS

**STRATUM 3D** is formulated to comply with all requirements of BS EN476:2000 as class 1 flame spread.

### 3. Mixing

**STRATUM 3D** is a low viscosity material and as such required only VERY SLOW MIXING to avoid inducing air bubbles into the product that may be reflected in the final appearance.

Add the contents of the Part B (Hardener) container to the contents of the Part A (Base) and VERY SLOWLY mix using drill mixer for 3-4 min until a homogenous consistency is achieved.

### 4. Application

Immediately after mixing pour **STRATUM 3D** to the prepared surface and spread using a squeegee or notched trowel. Allow to level naturally then use spiked roller to release entrapped air and assist in spreading the material further to achieve the maximum thickness of 4 mm in a single layer.

### 5. Curing

Allow **STRATUM 3D** to cure fully for 4-7 days before exposing to full environmental conditions.

### 6. Cleaning

Clean all tools and application equipment with a suitable thinner immediately after use.

Hardened or cured material can only be removed mechanically.

## PACKAGING

**STRATUM 3D** is supplied in 15 liters set, component A & B.

## HEALTH & SAFETY

Before applying **STRATUM 3D**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **STRATUM 3D** is splashed to skin, it must be washed off by water and soap at once, and if to the eyes seek medical attention immediately.

## STORAGE & SHELF LIFE

**STRATUM 3D** shall be stored in its sealed container under dry and shaded place in a temperature from 5°C -35 °C, shelf life of the material is 12-months.

### TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:  
concretedoctor@arkaz.com

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