

STRATUM SL1000

Flow applied, 1 mm thick epoxy resin-based self-level flooring system

DESCRIPTION

STRATUM SL1000 is a 3-component colored self-smoothing topping based on epoxy resin. It has a smooth pouring grade consistency that provides a dense, high gloss finish to give a bright aesthetic look that is hygienic and easily cleaned, **STRATUM SL1000** has excellent impact and chemical resistance.

USAGES

- Heavy duty applications, turbine rooms, armories and hangers
- Clean rooms, Kitchens, and laboratories
- Car parks and active warehouses
- Any flooring where impact resistant is required

ADVANTAGES

- Self-smoothing makes it easily laid
- High abrasion and chemical resistance
- Low maintenance costs
- Hygienic, impervious flooring which is easy to clean
- Available in various colors upon request
- High bond, stronger than concrete cohesive strength
- Seamless show no joints and provides an excellent protection

TECHNICAL DATA

STRATUM SL1000	Typical values
Mixed Appearance	Colored Liquid
Solid Content	100%
Compressive Strength @day 7 (BS 6319)	60 N/mm ²
Flexural Strength @day 7 (BS 6319)	30 N/mm ²
Adhesion Strength @day 7 (ASTM D4541)	1.5 N/mm ²
Pot Life @25°C (ASTM D2471)	30 min
Exposure to Foot Traffic	24 hours
Exposure to Vehicle Traffic	48 hours
Exposure to Chemicals	7 days

USAGE INSTRUCTIONS

1. Surface preparation

All substrates shall be sound, clean, free from dust, grease & oil.

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.

Concrete floors should have compressive strength not less than 25 MPa. and if new concrete floor, it must be over 28 days old before applying any resin-based product.

Any cracks or grooves should be filled using **PIOMORTAR FC** before priming.

2. Priming

Apply one coat of **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 SL1000	Coverage
PIOPRIME 38	9 m ² / liter
STRATUM SL1000	1 liters/m ² /1mm

STANDARDS

STRATUM SL1000 is formulated to comply with all requirements of BS EN476:2000 as class 1 flame spread.

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.

3. Mixing

Stir component A only separately, then the entire content of component B could be poured into the component A container, both should be mixed for 1-2 minutes using mechanical mixer (drill mixer). Insufficient mixing may lead to color variation and bubble formation.

Empty the mixed resin into a suitable empty container with sufficient volume to accommodate the total yield of the material.

Add component C (Filler) to the mixed resin component (A & B) and mix for an additional 2-3 minutes until a uniform color & consistency is achieved.

4. Application

Pour the mixed material onto 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 minimum thickness.

5. Curing

Allow **STRATUM SL1000** to cure fully for 4-7 days before exposing to full mechanical or chemical 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.

CHEMICAL RESISTANCE

STRATUM SL1000	Concentration
<i>Lactic Acid</i>	15%
<i>Citric Acid</i>	10%
<i>Phosphoric Acid</i>	50%
<i>Nitric Acid</i>	10%
<i>Bleach concentrate</i>	100%
<i>Saturated urea solution</i>	100%
<i>White spirit</i>	100%
<i>Oils</i>	100%
<i>Petrol</i>	100%
<i>Diesel</i>	100%
<i>Ammonia</i>	10%
<i>Hydrochloric Acid</i>	50%
<i>Sulphuric Acide</i>	50%

PACKAGING

STRATUM SL1000 is supplied in 15 liters set, component A, B & C.

HEALTH & SAFETY

Before applying **STRATUM SL1000**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **STRATUM SL1000** 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 SL1000 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

LEGAL DISCLAIMER

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Since the conditions of use are beyond our control, we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale including those limiting warranties and remedies which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would violate or infringe statutory obligations or any rights belonging to a third party.

These products may be covered by patents or patents pending.



Copyright 2021
Printed in K.S.A. Version 2.0
13-March-2020