

STRATUM EPG

Heavy duty epoxy positive skid resistance system

DESCRIPTION

STRATUM EPG is a three component, solvent free, tar modified, epoxy resin slurry, specifically formulated to provide excellent abrasion and skid resistance to asphalt, steel or concrete surfaces particularly in high wear areas. **STRATUM EPG** is normally applied at thickness between 3-5 mm in a single layer, is waterproof, flexible, hard wearing and chemical resistant.

USAGES

- Coating of asphalt, steel & concrete substrates
- Areas requiring a high degree of slip or skid resistance such as helipads, ship decks, loading bays, traffic ramps, road and food bridges

ADVANTAGES

- Non-slip-excellent grip even when wet
- Lightweight
- Hard wearing
- Flexible
- Chemically resistant
- Waterproofing
- Zero spread of flame
- Excellent adhesion to steel and concrete substrate
- Aquaplaning preventive

TECHNICAL DATA

STRATUM EPG

Typical values

Density

1700 kg/m³

Abrasion Resistance
(ASTM C779)

60 min

Pot Life @35°C
(ASTM D2471)

45 min

Bond Strength
Concrete
Steel

16 N/mm²
15 N/mm²

Curing Time @20°C
Food traffic
Vehicle traffic

16 hours
3 days

USAGE INSTRUCTIONS

1. Surface preparation

Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate.

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.

Prepare concrete surfaces preferably by mechanical methods such as angle grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for **PIOPRIME 62**.

After preparation fill all blow holes and surface imperfections using **PIOMORTAR IT** to provide a smooth even surface prior to priming or over coating. Allow 24 hours to cure at 25°C and lightly abrade before over coating.

Steel

Mechanically prepare steel surfaces to SA21/2, NACE No2 or SSPC-SP 10 prior to applying **STRATUM EPG**.

A 50-75 microns profile to steel surfaces is desirable to ensure a good mechanical bond to the substrate.

STANDARDS

STRATUM EPG is formulated to comply with all requirements of BS 476, part 7.

2. Priming

Prior to the application of STRATUM EPG, prime the prepared surface using **PIOPRIME 62**.

Thoroughly stir both parts of **PIOPRIME 62** together in full for at least 2-3 minutes until a homogenous consistency is achieved.

Apply **PIOPRIME 62** using brush or roller to the prepared concrete surface at a rate of 9 m²/liter per coat. Allow the primer to become tack free before applying **STRATUM EPG**.

Work the primer well into the concrete surface using a stiff brush to give an even, continuous, unbroken coating.

A second priming coat may be required if the substrate is particularly porous.

Re-prime if the primer coat has not been overcoated within 18 hours.

Dust and surface contamination must be removed prior to subsequent application of **STRATUM EPG**.

STRATUM EPG	Coverage
PIOPRIME 62	9 m ² /Liters
STRATUM EPG	3m ² /pack/3mm

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

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product performance. Failure to do so can result in lower performance or even possible failure of the product.

Add the contents of the Part B container to the content of Part A container and mechanically mix the components together for 3-5 minutes until a homogenous consistency is achieved. **DO NOT UNDER ANY CIRCUMSTANCES PARTIALLY MIX THE MATERIALS.**

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

Add the powder component to the mixed resin component and mix using a slow speed drill and paddle or forced action mixer for an additional 2-3 minutes, until a uniform color & consistency is achieved. **ALWAYS ADD THE POWDER TO THE RESIN.**

4. Application

Apply the mixed **STRATUM EPG** slurry onto the prepared surface and spread out using a squeegee or notched trowel, at a theoretical coverage rate of 3 m² per pack at 3 mm thickness to 1.9 m² per pack at 5 mm thickness.

Scatter or completely blind Anti-slip aggregate into the wet slurry at a theoretical coverage rate of 0.7-1 kg per m² until a desired anti slip profile is achieved.

Allow **STRATUM EPG** to dry and sweep of any excess aggregate that has not bonded.

Expansion joints must be reflected through **STRATUM EPG** and preferably sealed with a sealant from **ENESEAL** range.

5. Curing

Allow **STRATUM EPG** 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.

PACKAGING

STRATUM EPG is supplied in 16 kg set, component A, B & C.

HEALTH & SAFETY

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

If **STRATUM EPG** 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 EPG shall be stored in its sealed container under dry and shaded place in a temperature from 10°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:
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