

1. Product Description

StenCoat® 2EP YALIT is a high electrical insulation floor coating material that can be applied, with the appropriate primer, to any rigid floor in facilities where electrical insulation from the floor is required for workplace safety, particularly in switch rooms, electrical control rooms, and cabinets. It has good abrasion resistance and is resistant to chemicals. It is a system consisting of solvent-free epoxy resin, pigment and solid filler.

StenCoat® 2EP YALIT is a seamless, durable and solid coating system resistant to abrasion, impact, chemicals, and penetration. It is resistant to organic and inorganic acids and alkalis, oils, fuels, antifreeze, and many chemicals.

2. Uses

StenCoat® 2EP YALIT is used in all facilities where electrical insulation from the floor is required for workplace safety, particularly in switch rooms, electrical control rooms, and cabinets. It is used in areas where occupational safety requires it; for example, on floors where electrical panel maintenance personnel work, and in areas where there is risk of workers coming into contact with electricity or of a short circuit. It is suitable for concrete, mosaic, tile, steel, and other surfaces in these facilities.

3. Application

3.1. Surface Preparation

Proper surface preparation is of great importance. For this purpose, if detailed information about the condition of the surface is provided, **Stenkim®** will recommend the most suitable surface preparation methods. Temperature/Humidity: During application, ambient and substrate temperature must be between 5-30 °C. The relative humidity of the substrate must not exceed 75%.

3.2. Primer

StenAst® 2EP must be used as the primer. Apply 0.4-0.5 kg of **StenAst® 2EP** depending on surface roughness.

3.3. Leveling Mortar

Leveling mortar is necessary to make the surface smooth and to ensure that the self-leveling main coating provides a smooth surface. The mixture prepared for this purpose consists of **StenCoat® 2EP YALIT** and **StenSilica 100-300**.

3.4. Coating Layer

It is of great importance that the surface to which this self-leveling material will be applied after mixing has been properly prepared. Quick, easy and error-free application is possible on the floor prepared in the manner described above. First, component A is homogenized in its container for 1-2 minutes.

For mixing the components, a low-speed drill and jiffy-type mixer can be used, or, for large areas, a horizontal rotary mixer can be used. Then component B is added to the container holding component A, and the two components are

Epoxy-Based Electrically Insulating Floor Coating

Highlights

- Epoxy-based
- Solvent-free
- Highly insulating
- Ensures workplace safety
- Provides a seamless, smooth and easy-to-clean surface
- High scratch resistance
- Resistant to abrasion
- Resistant to chemicals
- High impact resistance
- Available in catalog colors
- Long-lasting and durable



mixed until homogeneous. The components are mixed for 2-3 minutes, taking care that no air enters the mixture and that it becomes completely homogeneous.

The prepared material is immediately poured onto the application area, spread roughly at first, and leveled with a screed. The minimum application thickness is 3 mm.

3.5. Cleaning

Equipment used can be cleaned at the end of the job with **StenSolver CL**.

4. Safety

Applicators and supervisors must read the Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be disposed of in compliance with relevant regulations and laws. The application must be carried out by skilled workers under the supervision of experts and the applicators must use all personal protective equipment required for the worksite and the task such as goggles, mask and gloves.

5. Storage

Storage temperature must be between 5 and 30 °C. Packages must not be exposed to direct sunlight. Under these conditions, the material will retain its properties in unopened containers for 12 months from the production date.

Low temperatures may cause crystallization of the product; in this case, the product can be used after being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

6. Disclaimer

This document is provided for general information and is based on **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information without prior notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended purpose and for all conditions of transport, storage, application, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.



7. Technical Data

Property	Method	Result
Base Polymer		Epoxy
Solids Content (by weight)		100%
Color		Catalog
Density		1.55 ± 0.05 g/cm ³
Application Thickness		min. 5 mm
Hardness (Shore)	EN ISO 868	D75-85
Adhesion Strength	EN 1542 (on concrete)	5.48 N/mm ² (concrete failure)
Abrasion Resistance	ASTM D 4060 CS17/1000 rev/1 kg	9 mg
Abrasion Resistance	EN ISO 5470-1 Taber dry, H18, 1000 cycles, 1 kg	192 mg
Electrical Resistance	ASTM D 257, 1000 V, 1 min, dry	> 11 GΩ
Impact Resistance	EN ISO 6272-1	Class 3 ≥ 20 Nm (No Damage)
Pot Life @20 °C		45 minutes
Tack-free Time @20 °C		3 hours
Time to Open to Traffic @20 °C		3 days
Cure Time for Chemical Resistance @20 °C		7 days
Shelf Life		1 year
Packaging		15 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time.

