

**CHEMILINK**  
ZERO WASTE ENGINEERING

# CHEMILINK™ SS-224

## Acrylic Polymer Cementitious Coating

### Description

Chemilink™ SS-224 is a two-part, pre-packed high performance acrylic polymer modified cement-based coating mortar with Part A (grey powder consisting of cements, fillers and additives to enhance workability, setting and hardening properties) and Part B (milky-white emulsion consisting of acrylic polymer and other special additives to improve adhesion, abrasion and impact performance).

Chemilink™ SS-224 is specially designed as an abrasion, skid and water resistant indoor or outdoor concrete floor topping, however NOT for structural purpose.

### Typical Uses

- Topping of new and old concrete floors to increase skid and abrasion resistance
- Resurfacing of old and worn concrete floors
- Patching and repairing of damaged concrete surfaces
- Ideal for warehouses, car parks, walkways, building aprons and staircases etc.

### Advantages

- Easy to mix and apply
- Fast setting and hardening
- Excellent adhesions to concrete substrate
- Superior anti-skid for foot and vehicle traffic
- Highly impact and abrasion resistance
- Good waterproofing and UV-proofing properties
- Suitable for interior and exterior applications
- Durable floor system
- Quickly open for traffic within 2 to 4 hours

### Surface Preparation

The substrates must be clean and sound, free of dust, loose particles, oil, grease, or any other contaminant. Cement laitance, loose particles, mould release agent, or curing compound must be removed by high pressure water jetting, scabber or other effective methods.

Defective and unsound substrate has to be removed and repaired prior to application of primer.

Existing substrate expansion joint is to be continued through the new topping and any moving cracks should be isolated with a movement joint.

### Technical Data

- Compressive Strength (ASTM C109: 02): 40 MPa
- Flexural Strength (ASTM C348: 02): 9 MPa
- Tensile Strength (ASTM C307: 03): 5 ~ 5.5 MPa
- Skid Resistance (ASTM E303: 03): 60 BPN
- Shear Bond Adhesion (ASTM C482: 02): 2.5 MPa
- UV Accelerated (ASTM 154: 00)
  - 500 hours
  - 1000 hours No cracking
- Water Penetration @ 0.4kgf/cm<sup>2</sup> (bar) for 6 hours (DIN 1048: Part 5: 91): No penetration
- Identification of Polymer (FTIR): Acrylic
- Setting Time (Vicat) (ASTM C191: 01): 45 minutes

Smooth and compact surfaces must be roughened by mechanical means.

### Priming

Once the substrate is clean and dry, brush or roll Chemilink™ SS-232 evenly onto the surface and allow to dry to a clear thin film (for at least 1hour) prior to the application of Chemilink™ SS-224.

### Mixing

When the primer is touch-dry, pour Chemilink™ SS-224 Part B (liquid) into a clean container and then slowly add Part A (powder) while a low speed electrical paddle stirring. **DO NOT add Part B (liquid) to Part A (powder).**

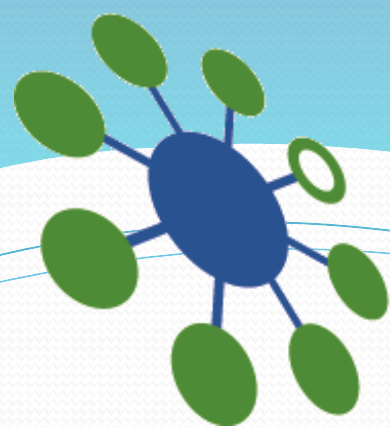
Mix thoroughly for about 2 to 3 minutes to obtain a homogeneous lump-free mixture. Avoid entrapping air during mixing.

### Application

Immediately after mixing, apply the mixture with a trowel or rubber tool onto primed surface at the thickness of 3 – 6mm in one layer.

Place more than one layer if need. Each subsequent layer should only be placed after the previous layer has been hardened (a minimum of 24 hours).





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For anti - skid surfaces, broom the finishing surface to a desired texture while still wet (shortly after the placement of mixture).

Chemilink™ SS-224 is a rapid setting product. The mixture should be used within 10 minutes after mixing.

#### Finishing

Chemilink™ SS-224 floor system can open for use within 2 to 4 hours, depending on the substrate and the environment.

#### Curing

Natural dry curing is essential to Chemilink™ SS-224. Where rapid drying conditions exist, such as low relative humidity, high temperature, direct sunlight, or strong wind, Chemilink™ SS-224 surface should be protected by a polythene sheet or a waterborne curing compound to reduce premature water loss.

#### Packaging and Coverage

Chemilink™ SS-224 is supplied in the following packs:

Pack Size	Part A (Powder)	Part B (Liquid)
30kg	25kg/Bag	5kg/Can

#### Coverage

5m<sup>2</sup>/Set at 3mm thickness

#### Colours

Dark Grey

Other colours can be supplied upon request.

#### Cleaning

Tools and equipment should be cleaned with water before the mixture hardens.

#### Storage

Chemilink™ SS-224 can be kept for 3 months from the date of manufacture if stored in original unopened packing in a cool dry place.

#### Health and Safety

Product is classified as non-hazardous.

Product is alkaline. Protect hands with rubber gloves.

Avoid contact with skin and eyes. Any splashes to skin and eyes, flush with water.

For detailed information, please follow instruction on the product Material Safety Data Sheet.



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*Our technical advice on the uses of our materials is given without obligation. The buyer is responsible for the application and processing of our products, and he is also liable for observing any third party rights. Technical data concerning our products are typical values.*

### CHEMILINK™ TECHNOLOGIES & PRODUCTS

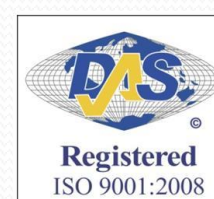
20 Kranji Road Singapore 739462

Email: [sales@chemilink.com](mailto:sales@chemilink.com)

Website: [www.chemilink.com](http://www.chemilink.com)

Tel: (65) 6252 2201

Fax: (65) 6252 7886



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