

# CHEMSTUK



## PRIME-KOTE E1-121 | EPOXY PRIMER, HB-114

High-Build Epoxy Paint

### Uses

Prime-Kote E1-121 | Epoxy Primer 124-HB is a high-build, modified two-component epoxy paint, which cures coating with good resistance to water, splashes of mineral oils, aliphatic hydrocarbons, and abrasion and impact. Limited resistance to aromatic and stronger solvents and to acids and oxidizing materials.

Prime-Kote E1-121 | Epoxy Primer 124-HB is a steel coating with no maximum recoating interval in EPOXY/POLYURETHANE systems.

CURING AGENT 124-HB-CA, polyamide, is typically for use above 5°C/41°F.

Excellent on both Prepared and Primed concrete or steel surfaces.



UV Resistant



Chemical Resistant



Water Resistant



Heavy Duty

### Environment & Health

Follow the appropriate Occupational Health and Safety guidelines applicable to the location where the application is undertaken. For more information, please refer to the safety datasheet for the individual components.

### Packaging

The product is supplied in full units as a 2-component pack.

|                                         |       |
|-----------------------------------------|-------|
| Prime-Kote E1-121   Epoxy Primer Part A | 20 Kg |
| Prime-Kote E1-121   Epoxy Primer Part B | 4 Kg  |
| Ratio                                   | 5:1   |

### Curing Times

|                      |                      |
|----------------------|----------------------|
| Dry to touch         | 3-4 hour             |
| Hard dry             | 7 hours              |
| Full curing          | 7 days               |
| Recoat interval, Min | 8 hours              |
| Recoat interval, Max | 14 days, See Remarks |

### Additional Information

|                             |                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Colours                     | Grey AS 2700                                                                                                                        |
| Finish                      | Semi-Gloss                                                                                                                          |
| Solid Content (by Volume)-% | 75±5                                                                                                                                |
| Theoretical spreading rate  | 80 m2 / one kit                                                                                                                     |
| Flashpoint                  | 28°C/83°F                                                                                                                           |
| Specific gravity            | 1.360 kg/lit                                                                                                                        |
| V.O.C.                      | Max. 280gr/lit                                                                                                                      |
| Shelf life                  | 1 Year (25°C / 77°F) from the time of production. Depending on storage conditions, mechanical stirring may be necessary before use. |

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm<sup>2</sup>, free from laitance, dust, and other contamination. The substrate should be dry to 75% RH as per ASTM F2170 (AS1884:2012).



Low Maintenance



Wear Resistant



Easy Application



High Durability

## Surface Preparation

The surface should ideally be grinded, or sand blasted. Concrete etching is an altered way to prepare the concrete wall. The surface must be completely clean and dry prior to application and its temperature must be at least 3°C above the dew point to avoid condensation.

The surface should be stable, firm, dry and free of dust, sand, loose old paint, dirt, grease and oil.

## Mixing

Stir Base A to re-disperse any settlement. Decant the required amount of Base A into a clean container by weight using digital scales. Add Hardener B to the Base A container and drain thoroughly. Mix with a slow-speed drill and helical

spinner head for 60 seconds, taking care not to entrain air. Mix until uniform.

## Application Method

| Method                        | Airless sprays   | Brush (touch-up) |
|-------------------------------|------------------|------------------|
| Thinner (max. vol.)           | EX-T-1 (10-30%)  | Ex-T-1 (5%)      |
| Pump ratio minimum            | 40:1             |                  |
| Tip size                      | 0.021"—0.019"    |                  |
| Tip pressure                  | 150 bar/2100 Psi |                  |
| Cleaning of tools             | EX-T-1           |                  |
| Indicated film thickness, dry | 75 microns       |                  |
| Indicated film thickness, wet | 100 microns      |                  |

**Conditions:** Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3°C above the dew point.

## Storage

|             |                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------|
| Time        | 12 Months in Unopened Packs.                                                                                    |
| Temperature | Storage temperature between 5°C and 35°C.                                                                       |
| Protection  | Should be stored inside and protected from frost, weather, moisture, direct sunlight and contamination ingress. |

## Remarks

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| Preceding Coat  | Epoxy primers such as PRIMIT or RICHPOXZ.                     |
| Subsequent Coat | Epoxy and polyurethane top coat such as POLYURIT or CINDOPOX. |

A completely clean surface is mandatory to ensure inter-coat adhesion, especially at long recoating intervals. Any dirt, oil, and grease have to be removed, e.g., with suitable detergent.

Salts should be removed by freshwater hosing. To check the adequate quality of the surface cleaning a test patch is recommended before actual recoating.

is stagnant. Always take precautions against the risks of fire and explosions.

## Film Thickness

May be specified in another film thickness than indicated depending on purpose and area of use.

This will alter the spreading rate and may influence drying time and recoating intervals. The normal range is 50-125 microns/ 2-5 mils.

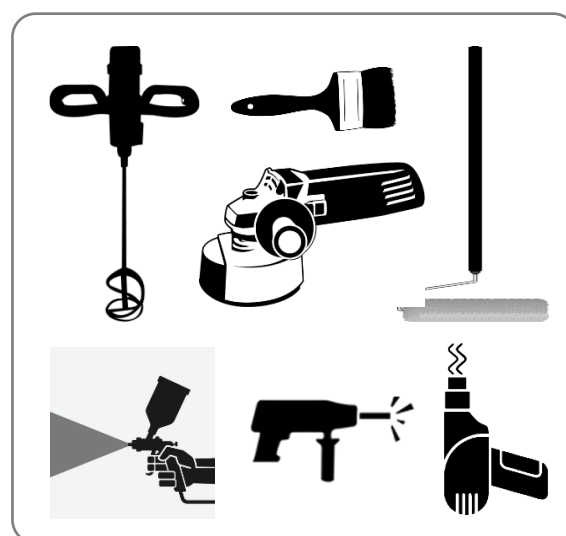
## Recoating and drying/curing time

Recoating intervals related to later conditions of temperature:

| Temperature | Time (Hours) |
|-------------|--------------|
| 25°C        | 8-72         |
| 20°C        | 12-96        |
| 15°C        | 24-96        |

## Application Equipment

The use of correct application equipment is critical as incorrect application tools can result in poor finishing and incorrect material consumption. Always test the application equipment prior to commencing work. The following equipment is recommended for this application.



## Safety

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Chemstuk material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air

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