

Technical Data Sheet (TDS)

CCI-620 Aria White

Epoxy Coating Base Coat

Special features

- ▣ Pre-colored for white coats
- ▣ Special formulation for thicker coats
- ▣ Suitable for airplane hangars



Product Description

Pre-Installation Checklist

A successful installation requires proper preparation of the subfloor. Read and understand all applicable guidelines and Technical Data Sheets before installation.

Sub Floor Examination

Prior to installation, the subfloor must be checked according to applicable installation guidelines. It must be solid, sound, clean, porous, free of chaps, anti-adherents, and resistant to pressure and tension. Confirm sufficient porosity by performing a water drop test according to ASTM F3191-16. Check for missing or compromised vapor barriers and hydrostatic pressure by carrying out RH or CaCl moisture tests following ASTM standards F1869-16 or F2170-19. Results of 99% RH or 25# CaCl could indicate a higher moisture content in the slab than what tests can measure, and there might be hydrostatic pressure and/or a compromised or missing vapor barrier.

Sub Floor Preparation

The condition of the subfloor will determine which type of mechanical treatment is required (e.g. wire brushing, sanding, grinding, or shot blasting). Dust, paint, curing compounds, sealers, residual adhesives, or other surface contaminants MUST be removed and a porous surface achieved by suitable means. The extent of subfloor preparation can only be determined at the site by the installer. Clean the surface with an industrial vacuum cleaner and tack the floor with a damp microfiber mop before application. Do not use sweeping compounds unless they are water-based as most others will contain oil or wax which will act as an anti-adherent and prevent primers, sealers, leveling compounds, coatings, and/or adhesives from bonding to the concrete. Cracks and gaps must be treated prior to application of primers, sealers, leveling compounds, coatings, and/or adhesives (for details see Technical Information #19 @ www.staufusa.com).

Mixing of Components

The bottom container contains a hardener. Separate pails by inserting a screwdriver between the upper pail and the lower lid, careful not to puncture either one. Open both pails and let the hardener flow into the larger bucket for one minute. All of the hardeners must drain into the pail before mixing Parts A & B. Mix both components with a mixing paddle for at least 3 minutes. Use an electric drill with less than 300 rpm until an even color is reached. Avoid air entrapment by mixing slowly and using an appropriate mixing paddle. Make sure to mix along the wall and bottom part of the container as well. The temperature of both components should be at least 50°F before mixing.

Installation Procedure

Mix pail according to mixing instructions. Apply coating undiluted with an approved applicator. Make sure the coating is spread evenly and up to the perimeters. The spread rate is critical for a successful installation. Do not exceed the minimum or maximum coverage.

Limitations

When using other than STAUF products in conjunction with STAUF primers, sealers, leveling compounds, or adhesives, STAUF denies any and all responsibility for any ensuing problems and/or damages without prior written authorization from STAUF.

Do not dilute primer/sealer or mix with other products.

Sealer will not prevent moisture damage from hydrostatic pressure, missing or compromised vapor barriers, underground springs, damaged water pipes, sinks, icemakers, faulty plumbing, flooding, etc.

General Features

- ❑ Contains no water
- ❑ Contains no chlorinated solvents
- ❑ Contains no solvents
- ❑ Contains no VOC (calc. per CA Rule 1168)
- ❑ High solids content
- ❑ Ozone friendly
- ❑ Freeze/thaw stable
- ❑ Contains no isocyanates

Installation Features

- ❑ Low odor
- ❑ High spread rate
- ❑ Excellent penetration of subfloor
- ❑ Higher temp and RH will shorten drying time
- ❑ Observe pot life during installation

Long Term Features

- ❑ Resistant against aging
- ❑ Suitable for radiant heat systems

VOC (Rule 1168 calc.) [g/L]

- ❑ 84

Viscosity [cps]

- ❑ A:1500-2400 B:350-450 Mix:1200

Abrasion Resistance (CS-17, 1000g, 1000cycles) [mg]

- ❑ 70

Dry Film Thickness [mil]

- ❑ 32

Bond Strength [psi]

- ❑ > 300

Compression Strength [psi] EN ISO 604

- ❑ 15,000

E-Module [psi] EN ISO 604

- ❑ 230,000

Flexural strength [psi] EN ISO 178

- ❑ 4,000

Tensile Strength [psi] EN ISO 527

- ❑ 2,900

Elongation at Break [%]

- ❑ 2.3

Shore D Hardness (ISO 7619)

- ❑ >70

Approved Subfloors

- ❑ Concrete Slabs
- ❑ Ceramic Tiles
- ❑ Stone, Terrazzo
- ❑ Cured Leveling Compounds
- ❑ Radiant Heated Subfloors
- ❑ Drywall
- ❑ Plaster
- ❑ Stained Concretes (well bonded)

Approved Trowels and Spread Rate

- ❑ XBL10 (7/64 x 5/64 in): up to 70 SF/gal.
- ❑ 3/8 in. Nap Roller: up to 200 SF/gal (8 mil)

Drying Time

- ❑ Between 8 and 12 hours

Temperature Range during Installation

- ❑ 50-90F (10-32C)

Relative Humidity Range during Installation

- ❑ 30% - 80%

Packing Size

- ❑ 2 gal. Metal Combo Pail (A+B)

Density [lbs./gal.]

- ❑ A:13.6 B: 8.8 Mix: 12.4

Color

- ❑ White

Color Hardener

- ❑ Clear

Mixing Ratio

- ❑ 4 parts A + 1 part B by weight
- ❑ 2.5 Parts A + 1 Part B by volume

Pot Life

- ❑ Approx. 25 min. @ 70F (21C)

pH value of concrete

- ❑ Resistant up to 14

Storage

- ❑ Above 14F

Shelf Life

- ❑ 72 months in original, unopened container

Transportation

- ❑ UN 2735 Polyamines DOT Class 8 Corrosive
- ❑ UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin), 9, III