Technical Data Sheet (TDS)

CCO-640 Aria Rapid UV

Urethane (Polyaspartic) Base Coat

Special features

- Fast drying
- Exceptional slip-resistance with sand broadcast
- UV stable
- Can be tinted and/or flaked

Product Description

STAUF CCO-640 Aria Rapid UV is a two-component, 100% solid urethane (aspartic) base coat for professional flooring installation over outdoor floors requiring industrial-grade coatings. CCO-640 can be mixed and modified with tints for coloring, flakes for decorative flooring, and sand for increased slip resistance. Once cured, floor coating is safely cleaned by using any number of methods including high pressure, ammonia, bleach, solvents, and steam washing. It is UV stable and does not chalk or amber due to sunlight.

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 lid contains a hardener. Pierce all the way through the plastic disc in the center of the lid and the bottom of the lid using a long screwdriver or similar tool. Let the hardener flow into the lower part of the bucket for one minute. All of the hardener must drain into the pail before mixing Parts A&B. Open the ring, remove the lid, and 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 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

Subfloor temperatures between 32-50°F (0-10°C) will dramatically increase drying time up to 24 hours. Never install the product when subfloor temperature is below freezing or if condensation could occur on the subfloor within 24 hours after application.
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.
In case of an accident, injury, spill, or exposure, see SDS for information. Consult the Technical Data Sheet at www.staufusa.com for updated information.
The foregoing representations are based on the results of our most current product and material testing within a controlled environment and are of a non-obligatory advisory nature only. As such, they do not constitute an express or implied warranty of any kind including the Warranty of Merchantability and/or Fitness for a Particular Purpose. Because we have no control over the actual quality of workmanship, materials used, and worksite conditions, STAUF USA LLC will in no event be liable for any incidental and/or consequential damages. Therefore, we strongly recommend that prior on-site testing be conducted to refer to and study the suitability of the product for the intended purpose. With the release of this Technical Information Sheet, all its prior versions become invalid. For warranty and warranty disclaimer information please see our Limited Lifetime Warranty @ www.staufusa.com

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

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

Viscosity [cps]
- A:1500-2300 B:400-600 Mix: 2000

Abrasion Resistence (CS-17, 1000g, 1000cycles) [mg]
- 70

Dry Film Thickness [mil]
- 3 (plus sand and flakes)

Bond Strength [psi]
- >300

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
- 3/8 in. Nap Roller: up to 200 SF/gal (8 mil)

Drying Time
- Approx. 1 hour

Temperature Range during Installation
- 50-90F (10-32C)

Relative Humidity Range during Installation
- 30% - 80%

Packing Size
- 2 gal. plastic combo pail (A+B); 60 per pallet
- 2.5 quart metal pail

Density [lbs./gal.]
- A:12.0 B:9.4 Mix:11.3

Color
- White

Color Hardener
- Clear

Mixing Ratio
- 5 Parts A + 2 Parts B by weight
- 1.9 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
- 60 months in original, unopened container