ICC 30

A 30 Mil Industrial Concrete Coating System

PRODUCT DESCRIPTION

ICC 30 Epoxy System is a three-coat high build epoxy coating system consisting application made up of 4100 Vapor Reducing Primer, 4800 Build Coat and 5300 Chemical Resistant Urethane as the final chemical and abrasion resistant topcoat. ICC 30 floor is intended for applications over concrete and existing concrete coatings where strong durability and chemical resistance are desired. Consult with a Versatile Building Products representative for specific recommendations.

COVERAGE RATES AND PACKAGING

4100 PRIMER	300 ft/Kit- 200 ft/Gal	Sold in 1.5-Gallon Unitized Kit or 5 Gal Bulk
4800 EPOXY	110 ft/Kit- 73 ft/Gal	Sold in 1.5-Gallon Unitized Kit or 5 Gal Bulk
5300 CRU	400 ft/Kit- 267 ft/gal	Sold in 1.5-Gallon Unitized Kit or 5 Gal Bulk

NON-SKID CHOICES

RHINO TOOTH #50 NON SKID	2000-2500 ft/lb	Sold by the Half Pound and 60 gram Jars
Optional Non Skid		
SILICA SAND #30 NON SKID	133-166 ft/lb	Sold at local building supply house

SUBSTRATE REQUIRMENTS

Concrete

Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. Concrete may need to be mechanically profiled and prepared by shot-blasting, grinding, or other means of scarification. All cracks, gouges, and other surface defects need to be addressed prior to coating installation. Substrate and ambient temperatures must be above 50°F (10°C) during installation of 4100 PRIMER, and above55°F (18°C) during installation of the 4800 EPOXY COLORSEAL. Relative humidity should not exceed 65% during installation of the coatings. Environmental conditions must not be near the dew point during installation of the coatings. Moisture vapor emission must be <10lb/24hr/1000 ft^2. If moisture vapor emission is higher, contact a Versatile Building Products representative for and alternative coating system.

Other Substrates

Consult with a Versatile Building Products representative for recommendations over other substrates.

STEP 1) SURFACE PREPARATION

(There are many methods of surface preparation for various substrates, many of which are adequate for this application. Consult a Versatile Building Products Representative for alternatives to the procedure outlined below, and methods of correcting problematic and contaminated substrates.)

Concrete

Concrete must be mechanically profiled and prepared by shot-blasting, grinding, water-jetting, or other means of scarification to produce a Concrete Surface Profile (CSP) between #2 and #4, according to International Concrete Repair Institute (ICRI) Guideline No. 03732. Cracks and Joints must be repaired before installing ICC 30.

STEP 2) INSTALLATION OF 4100 EPOXY PRIMER

(Note: 4100 has a pot-life of 30 minutes based on an insulated 200 gram mass starting at 77°F)

Mixing

Mix 2 parts by volume 4100 PRIMER A-Component with 1 part by volume 4100 PRIMER B-Component for 2-3 minutes using a jiffy-type mixing blade at no less than 400rpm. Transfer mixed material to a second mixing vessel and mix an additional 30 seconds to ensure that material along the sides of the first mixing vessel have been properly incorporated into the mixture.

Application
Apply mixture to the substrate using a notched squeegee at a uniform coverage rate of 150 ft per mixed gallon (11-mils). Use spiked shoes when walking into wet material. Allow the coating to cure a minimum of 10-16 hours before proceeding to the next step.

STEP 3) INSTALLATION OF 4800 EPOXY COLORSEAL
(Note: 4800 EPOXY has a pot-life of 30 minutes based on an insulated 200 gram mass starting at 77°F)

Mixing
Mix 2 parts by volume 4800 EPOXY A-Component with 1 part by volume 4800 EPOXY B-Component for 2-3 minutes using a jiffy-type mixing blade at no less than 400 rpm. Transfer mixed material to a second mixing vessel and mix an additional 30 seconds to ensure that material along the sides of the first mixing vessel have been properly incorporated into the mixture.

Application
Apply mixture to the substrate using a notched squeegee at a uniform coverage rate of 114 ft per mixed gallon (14-mils). Use spiked shoes when walking into wet material.

STEP 4) INSTALLATION OF 5300 CHEMICAL RESISTANT URETHANE
(Note: 5300 CRU has a pot-life of 90-120 minutes based on an insulated 200 gram mass starting at 77°F.)

Final Prep
Power sand/screen the entire area if necessary to remove surface defects such as grit, air bubbles, etc. Use a tack rag to remove fine dust from surface. Solvent wipe surface 30 minutes prior to final 5300 topcoat.

Mixing
Using a jiffy-type mixing blade at a minimum of 700 rpm, mix 5300 series CRU A-Component with 5300 CRU B-Component according to ratios listed on the label. Mix for two minutes while adding approximately 1 ounce of Rhino Grip to every mixed gallon. Transfer mix to a second mixing vessel and mix for an additional minute (transferring to a second mixing vessel prevents unmixed components clinging to the sides of the first mixing container from being poured onto the floor.)

Application
Working only as much wet edge as can be properly handled. Begin by cutting-in the edges with a brush. Do not work edges more than 15-30 minutes ahead of the main body of the floor. Pour a band of the mixed material out onto the floor and begin rolling with a 3/8" mohair nap roller. Work the material evenly to a wet film thickness of 5-mils (300 ft gallon).

Optional Silica Sand Non Skid
Broadcast Silica onto the dry 4800 before applying the CRU Topcoat.

Cleanup
Immediately cleanup splatter marks and tools with lacquer thinner. Clean hands and exposed skin with mild soap and water, and/or citrus based hand-cleaner.

Cure Times
Coating can typically accept light foot traffic in 8-16 hours, vehicular traffic with pneumatic tires in 36-48 hours. Full cure occurs in 5-7 days

ADDITIONAL CAUTIONS AND RECOMENDATIONS
- Do not force dry
- New concrete must cure for at least 30 days at 70°F
- Coverage rates may vary
- Mask all areas that need protection
- Always wear protective clothing and equipment as required by OSHA and as necessary
- Read Material Safety Data Sheets before commencing work
- Store material at 50-70°F to prevent shortened pot-life due to excessive heat

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