

ARMORPOXY ONESTEP BALCONY AND DECK COATING

TECHNICAL AND INSTLALATION INFORMATION

V1.2 5/20

PRODUCT DESCRIPTION:

OneStep Balcony Coating is a two-component, aliphatic, chemically cured, elastomeric polyurethane hybrid coating system that has both superior flexibility and abrasion resistance. Easily applied in a single coat with or without primer and designed for pedestrian traffic specifically balcony and deck applications.

USES:

OneStep Balcony Coating is designed for exclusive use on pedestrian traffic applications.

Including:

- Balconies
- Pedestrian Plaza & Rooftop Decks
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arenas

CHARACTERISTICS / ADVANTAGES:

- Integrally textured for slip resistance
- Low odor and fast turnarounds
- Outstanding resistance to abrasion and wear
- UV resistant
- Resistant to deicing salts
- Volatile Organic Compounds (VOC): 20.9 g/L
- One Step System of 35 mils
- Primerless on concrete or can be applied with primer

PRODUCT INFORMATION:

Packaging 2.66 gal. kit; 2x 1.20 gal. comp. A, 2x 0.13 gal. comp. B

Color Gray & Tan

Shelf Life 1 year in original, unopened containers.

Storage Conditions Store dry at 41-95 °F (5-35 °C). Condition material to 65-85 °F (18-30 °C) before using.

Solid content by volume 92.17% ASTM D-2697

Shore A Hardness 90+/-5 (ASTM D-2240) 75°F (24°C) 50% RH

Tensile Strength 2400 +/- 200 psi (ASTM D-412) 75°F (24°C) 50% RH

Elongation at Break 500% +/-50% (ASTM D-412) 75°F (24°C) 50% RH

Tear Strength 300 lbf/in. +/- 50 lbf/in. (Die C, ASTM D-624) 75°F (24°C) 50% RH

Dry film thickness 35 mils (38 WFT) 50 sf/ 1.33 gal A+B mix Pot Life 20 min

SUBSTRATE PREPARATION:

Concrete -

Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. The desired surface texture is CSP 3 per ICRI Guidelines. In addition, the substrate surface must be thoroughly cleaned by blowing/vacuuming to remove all particulates that may interfere with bonding. Can be applied with or without primer.

Plywood –

Should be clean and smooth, APA and exterior grade, not less than ½” thick, and spaced and supported according to APA guidelines. Joints should be sealed with Onestep Primer and may need embedded fabric reinforcement. Primer is required for plywood.

DETAILING

Cracks, seams etc must be repaired prior to coating using Sikaflex Caulk, and/or Armorpoxy Fabric Tape and primer.

PRIMING

OneStep Balcony Coating does not require primer on direct application to concrete with moisture content below 4%, other substrates may require primer.

Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter. Primer is not required for concrete but if moisture content in concrete is greater than 4% please contact Armorpoxy for proper Moisture Barrier primer selection.

Onestep Primer – For existing polyurethane coatings, clean then solvent wipe existing coating, allow solvent to flash off, and then apply OneStep Primer with a flat squeegee or phenolic resin core roller at approximately 250 - 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. OneStep Primer is not suitable for metal substrates. OneStep Primer adheres to sealants and existing coatings. Refer to separate primer data sheet for additional information.

MIXING

Premix Part A and Part B components using a low speed (400–600 rpm) mechanical mixer and Jiffy Paddle (2-5 Gallon Model) to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail, ensure aggregate in Part A is fully mixed. Pour Part B into Part A slowly and while mixing scrape the side of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

APPLICATION

Apply at 43 sf/gal to yield 38 WFT using a notched squeegee or trowel (Recommend: 1/4" notched squeegee or trowel) , and backroll using a phenolic resin core roller (3/8") the area should be backrolled two times, one perpendicular to the other. Extend coating over entire area including previously detailed cracks and joints. Coating should be tack free after about 6 hours at 70 °F and 50 % RH. Allow coating to cure for a minimum of 8 hours before opening to pedestrian traffic.

REMOVAL

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

LIMITATIONS

To avoid dew point conditions during application relative humidity must be no more than 95 % and substrate temperature must be at least 5°F (3 °C) above measured dew point temperature.

Maximum moisture content of concrete substrate by weight when measured with a Tramex CME is 4%.

Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 95 °F (35 °C).

Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.

Do not thin with solvents, Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.

Any repairs required to achieve a level surface must be performed prior to application
Surface irregularities may reflect through the cured system.

Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.

Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface.

- Do not proceed if rain is imminent within 6–12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.

- When applying over existing coatings compatibility and adhesion testing is recommended.

- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and for

vapors into the building/structure during product application and cure.

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On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, must not be coated with OneStep Balcony Coating.

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Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture tolerant primer-contact Sika regarding recommendations.

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▪ Do not subject to continuous water immersion. Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

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OneStep Balcony Coating requires proper water management including proper drainage on a waterproofing membrane and proper use of pitched or sloped substrate

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BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available, contact Armorpoxy.

Nothing contained in any Armorpoxy literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. ARMORPOXY SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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