

Sikalastic® 394 (US)

Two-component, solvent-free, aliphatic traffic bearing wear and top coat

Description	Sikalastic® Duochem 394 is a two-component, chemically cured, elastomeric aliphatic polyurethane coating intended for use as the traffic bearing wear and top coat over Sikalastic® Duochem 390 polyurethane water-proofing membrane and over Sikalastic® Duochem 391 polyurethane intermediate wear coat for pedestrian and vehicular traffic bearing applications.
Where to Use	■ Multi-story parking garages. ■ Parking decks and ramps. ■ Foot bridges and walkways. ■ Mechanical rooms. ■ Stadiums and arenas. ■ Plaza and rooftop decks. ■ Balconies.
Advantages	■ Low odor and fast turnaround. ■ Excellent crack-bridging properties and flexibility, even at low temperatures. ■ Outstanding resistance to abrasion and wear. ■ Long term UV resistance. ■ Resistant to de-icing salts. ■ Range of standard colors.
Coverage	107 ft ² /gal @ 15 wet mils (15 dry mils); 89 ft ² /gal @ 18 wet mils (18 dry mils); 64 ft ² /gal @ 25 wet mils (25 dry mils). NOTE: Surface texture can affect coverage rate.
Packaging	5 gal. two component kit, 3.47 gal. comp. A, 1.53 gal. comp. B.
Cure Mechanism	Chemical cure.
Chemical Resistance	Resistant to de-icing salts.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in original, unopened containers.
Storage	Store dry at 41°-95°F (5°-35°C). Condition material to 65°-85°F (18°-30°C) before using.
Colors:	Gray, Charcoal, and Tan. Custom colors available.
Pot Life:	35-45 minutes
Total Volume Solids (ASTM D-2697):	100%
VOCs (ASTM D-2369-81):	< 10 g/l
Tensile Strength (ASTM D-638):	450 psi
Elongation at Break (ASTM D-638):	145%
Tear Resistance (Die C, ASTM D-624):	79 pli
Hardness (ASTM D-2240):	85 +/- 5 Shore A
Abrasive Resistance ASTM D4060	
Taber Abraser, CS-17 Wheel:	1000 g (2.2 lb)/1000 cycles 15 mg of loss.
Water Absorption ASTM D570	
7 days immersion at room temperature:	0.26%

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How to Use

Surface Preparation

Surface must be clean, dry and sound.

Sikalastic® 390 Waterproofing Base Coat, Sikalastic® 391 Intermediate Wear Coat - Coating should be cured and tack free.

Existing Coatings - Should be cleaned and mechanically abraded to provide a contaminant free, open textured surface. Solvent wipe as allowed by state and local regulations.

Mixing

Premix Part A and Part B components using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. 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 the recommended coverage rate (see appropriate System Guide) using a 3/16" notched squeegee or trowel, and backroll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required (see appropriate System Guide). Allow coating to cure a minimum of 10 hours at 70°F and 50% RH; coating must be tack free before over coating. Allow coating to cure for a minimum of 48 hours before opening to vehicular traffic.

Aggregate: Use clean, rounded or semi-angular oven dried quartz sand with a size gradation of 16-30 mesh or 12-20 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means an even, light broadcast short of refusal. A full broadcast of aggregate means a heavy application to refusal. Any loose aggregate must be removed prior to re-coating. Backroll aggregate where indicated.

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 temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 90°F (32°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect coverage rates.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Use properly graded, oven dried aggregates only.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though 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 8-12 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.
- Opening to traffic or installation of separate wearing course prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic® Duochem Traffic Systems.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation to determine substrate moisture content and priming with a moisture-blocking primer – referenced Sikalastic® Duochem 390 product data sheet.
- Do not subject to continuous immersion.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.



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Construction



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