

PRODUCT DATA SHEET

Sikafloor® WP-31

Waterborne Aliphatic Urethane

PRODUCT DESCRIPTION

A single component waterborne aliphatic polyurethane finish, formulated to provide a durable, solid protective film on maple sports floors. Finish is NMP and NEP-free.

USES

New and existing wood sports floors in public and private schools, universities, professional arenas, and health clubs, stages, aerobic and dance floors.

CHARACTERISTICS / ADVANTAGES

- Single component
- Fast drying
- Non-yellowing aliphatic urethane
- NMP and NEP-free
- Excellent gloss
- Excellent rubber burn resistance
- Excellent defoaming and leveling properties
- Low odor
- Water clean-up

PRODUCT INFORMATION

Packaging	Product is available in 5 gallon pails.	
Appearance / Color	Milky/Opaque(wet)	
Shelf Life	1 year in original unopened container under proper storage conditions.	
Storage Conditions	Store dry between 40° - 90°F (5° - 32°c)	
Solid Content	30 +/- 1%	ASTM D-1644
Solid content by weight	8.5 - 8.7 lbs.	ASTM D-1475
Volatile organic compound (VOC) content	200 g/L	
Viscosity	14-45 cps	ASTM D-1545

TECHNICAL INFORMATION

Gloss Level	(60°) 90+
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APPLICATION INFORMATION

Coverage

600 - 700 sq. ft. / gal. (55.7 m² - 65m² / L)

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Previously coated floors

A test patch is strongly recommended to determine adhesion compatibility over previous waterborne or unknown finish.

- Remove any masking tape or gum with a putty knife. Clean the floor of dirt, dust mop treatments, etc. with a neutral cleaner.
- Allow the floor to dry.
- Screen the floors with #120 grit screens (250 sq. ft. per side; 23 m²) until the gloss is removed.
- Vacuum and tack the floor thoroughly using water.

Newly installed floors or sanded to bare wood

- Screen the floor using #120 grit screens (250 sq. ft. per side, 23 m²).
- Vacuum and then tack rag the floor with mineral spirits.
- Allow the floor to dry.

Seal coat application

Note: Do not use Sikafloor® WP-31 to seal the floor.

- With a lightweight T-bar, seal the bare wood with Sikafloor WP-3 N.
- Allow 1 - 2 hours dry with good ventilation for each coat.
- Minimum of two coats of Sikafloor WP-3 N is recommended.
- Screen the floor with a #120 grit screen, vacuum, and then tack with water.
- Line marking paint can then be applied.

Line marking:

- Before using paint every color should be tested for compatibility, not just brands.
- Apply line markings between the second and third coats. Follow the directions on the paint label for application.
- Lay out the court with masking tape as required and apply the paint.
- To ensure crisp lines allow paint to dry 1-2 hours before pulling up the tape. Allow the lines to dry per manufacturer's directions.
- Abrade the lines lightly with #150 grit screens or maroon pad

MIXING

THIS PRODUCT IS DESIGNED TO BE USED AS IS DO NOT THIN OR REDUCE WITH SOLVENTS.

APPLICATION

Finish coats:

1. With a lightweight T -bar applicator, apply Sikafloor WP-31 at 600-700 sq. ft. per gallon. . Do not allow finish to puddle.
2. Allow 2-4 hours dry before recoating. Finish with 1-2 more coats of Sikafloor WP-31.
3. Clean up with water.
4. If cured over 24 hours abrade floor with a #150 grit screen, do not use #120 grit h e r e .
5. Allow 24 hours cure before light traffic and 3 - 5 days before athletic activities.

AVAILABILITY/WARRANTY

- **SPONTANEOUS COMBUSTION:** Dust created from screening oil based finishes and rags soaked with oil and dust can auto-ignite causing a fire. DO NOT store or throw away the dust and oil soaked rags into a closed vacuum or trash can. Immerse the dust in water and open the rags to air dry before discarding the waste. High temperatures, high humidity and freshly applied seal increase the potential for a fire.
- In case of a spill absorb with inerts like sawdust or "oil dry" and wipe clean with Mineral Spirits Dispose in accordance with local regulations.
- Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container.

Trouble Shooting

Problem Observed	Possible Causes
Slow dry	Low curing temperatures, High humidity, Lack of ventilation and air movement after application.
Streaks	Product applied too thin.
Fisheyes	A foreign material on the surface, like oil, grease, or silicone
Wrinkling	Recoating too soon, Too heavy an application, puddling the finish
Bubbling	Overworking the product with applicator, shaking the finish before applying, High temperatures during application.
Peeling	Improper floor preparation
Dirt particles	Applicator Not "De-Fuzzed" loose fibers in the film, Room vents not sealed during the application
Screen marks	Using a too aggressive screen between coats

LIMITATIONS

- Full cure can take 14 days depending upon ambient conditions. The finish is susceptible to marring and scuffing prior to full cure. Do not replace walk-off mats prior to full c u r e .
- Material Temperature: Precondition material for at least 24 hours near floor to be coated.
- Ambient Temperature: Minimum/Maximum 65°/95°F (18°/35°C).
- Ambient Relative Humidity: Maximum relative humidity is 80% during application and curing.

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

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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 at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA 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.

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