

Maker Pro Paint™

SCENIC DESIGN PAINT SYSTEM



smooth-on.com

Water Based • UV Resistant • NO VOCs • ASTM E-84, Class A Flame Rated

PRODUCT OVERVIEW

Maker Pro Paints™ are industrial-grade scenic design paints developed for rigorous themed environment applications at amusement parks, zoos, aquariums, etc. where outdoor durability is critical. Properly applied paints are highly abrasion/scratch resistant, UV lightfast and weather resistant. Maker Pro Paints are “public space” safe and certify to the highest flame rating available; ASTM E-84, Class A. They are currently available in 13 different colors plus an adhesion promoter, and bond tenaciously to Smooth-On rigid / semi-rigid urethane or epoxy plastics as well as urethane flexible foams and rubbers and latex rubber. They will also bond to wood, fiberglass, aluminum, concrete, plasters, steel and many other substrates.

Maker Pro Paints™ are no-VOC water based acrylic-urethanes. Colors mix cleanly and easily for color matching, and have consistent uniform coverage with less paint build up. Maker Pro Paint™ can be applied by brush, roller, or sprayed with an airbrush, spray gun, or touch-up gun.

ENVIRONMENT - TEMPERATURE & HUMIDITY

Do not allow Maker Pro Paint™ to freeze. The material will not be usable. Store and use material at room temperature (73°F/23°C). After dispensing, replace cap immediately. For best results, paint in conditions which are between 65°F - 85°F (18°C - 29°C). Avoid painting when temperatures are below 60°F (16°C) or when relative humidity levels are above 65%. Colder temperatures will increase the drying time, while warmer temperatures will reduce drying time. Allow for extended drying times when painting in humid conditions or temperatures lower than 65°F (18°C), making sure each coat of paint has dried tack-free before applying another coat. To reduce drying times, keep air moving with a fan placed so that air moves across the painted surface, avoid pointing fan directly at fresh paint.

COVERAGE RATE

Maker Pro Paint™ covers approx. 43 ft² (4 m²) per 1 pint and 350 ft² (33 m²) per 1 gallon.

Coverage varies slightly per color. For optimum coverage, allow each coat to air dry tack-free before applying next coat. Maker Pro Paint™ Adhesion Promoter covers approx. 600 ft² (66 m²) with one coat applied for adhesion. Coverage varies per substrate type and texture.

EQUIPMENT SIZE & SET UP

Brush: Use a quality brush made for water-based paint, i.e., a brush with nylon or synthetic bristles, or a foam brush.

Roller: Use a synthetic or microfiber roller. Keep a wet edge.

SPRAY EQUIPMENT SET UP (Refer To Spray Application Section on Page 3 For Spraying Recommendations)

Airbrush: 0.3mm – 0.5mm tip-size, spray at manufacturer’s recommendations, generally ~ 25 – 35+ psi

Touch-Up Gun: 1.2mm tip-size, spray at gun manufacturer’s recommendations, generally ~ 22 – 24 psi

Spray Gun: 1.3mm – 1.5mm tip-size, spray at manufacturer’s recommendations, generally ~ 22 – 24 psi

FAN: For uniform drying and to accelerate drying time. Avoid pointing fan directly at fresh paint.

SURFACE PREPARATION

Remove all loose chalking or flaking paint from the surface. Clean using isopropyl alcohol.

NOTE: FOR BEST RESULTS; Any time you are using a new paint product, paint process or painting a new substrate type; **Before painting, a small scale test is recommended** using a piece/panel made of the same materials and following the same preparation & painting process as planned for the actual paint job. If the resulting finish is not as expected, contact Smooth-On™ Technical Help for assistance before proceeding with your project.

• **Painting RIGID Substrates & Surfaces**

- 1) After cleaning, sand with 320-grit sandpaper or a coarse scuff pad. Dry sand only. Clean using isopropyl alcohol after sanding, and allow substrate to air dry completely.
- 2) Apply one coat of **Maker Pro Paint™ Adhesion Promoter**.
- 3) Allow 30 minutes of drying time, allowing Adhesion Promoter to dry to a uniform sheen.

• **Painting FLEXIBLE Substrates & Surfaces**

- 1) After cleaning, apply one coat of **Maker Pro Paint™ Adhesion Promoter**. Sanding is not required.
- 2) Allow 30 minutes of drying time, allowing Adhesion Promoter to dry to a uniform sheen.

• **Pre-Mix** STIR WELL before each use.

• **Thinning**

Thinning is generally not required for application by brush or roller. For application with spray gun, thin about 10% - 25% per volume using distilled water. For application with airbrush, thin about 25% - 50% per volume using distilled water. Thin in small increments of ~5% per volume at a time, until a finely atomized spray-pattern is achieved.

APPLY MAKER PRO PAINT™

Generally, 2 – 3 coats are required for complete coverage.

DRYING TIME AND CURING

At 65 ° F /21° C to 85° F/29° C and 65% relative humidity, Maker Pro Paint™ will dry to a matte coat in about 10 – 15 minutes. Apply additional coats of paint after the underlying paint has dried tack-free.

- Use air to assist dry times. A simple fan positioned so that air flow is moving across the painted surface works excellent to assist drying.
- Do not cure with heat. Use of direct heat (heat gun) to dry Maker Pro Paint™ will cause a loss of adhesion.
- Allow for extended drying times when painting in humid conditions or temperatures lower than 65°F (18°C).
- Applying lighter coats (approx. 2 mil wet) with less thinning is also beneficial to assist drying.
- After final coat is applied, let dry for 48 hours at room temperature for maximum strength and scratch resistance.

APPLYING A CLEAR TOP COATING

Maker Pro Paint™ may be top-coated with a wide variety of clear top coatings, both water-based and solvent-based, catalyzed (2k), urethane and epoxy clears. Always make a test panel when trying a new paint and clear coat together. For best results, allow adequate drying time to ensure paint has thoroughly dried before applying clear topcoat. The clearest finish is achieved when applying clear to paint that has dried moisture-free.

SPRAY GUN APPLICATION

Apply 3 coats using a 50 / 50 overlapping pattern for pinhole-free coverage: 1 tack coat (medium) and 2 medium-wet coats.

Apply first coat lightly as a tack coat. Allow coat to air dry to a matte finish before applying next coat.

- Avoid “dry spraying” paint by spraying at too high of a psi or with too much distance between spray gun and surface as this may create adhesion failure. Apply paint within portion of its fan pattern which achieves an even distribution of paint at its optimum spray distance, generally 6” - 8” between tip and surface.
- Allow a 1 hour cure time minimum if top-coating with a clear or other coating type.
- Apply subsequent coats medium wet. Allow coats to air dry to a matte finish before applying next coat.
- Maker Pro Paint™ dries to vibrant colors. Any milky haze apparent when wet dries clear.

CLEAN-UP

Use water to clean brushes and spray guns after use and to rinse in-between color changes.

SAFETY FIRST

The Safety Data Sheet (SDS) for this or any Smooth-On product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully.

Keep Out of Reach of Children

BE CAREFUL - Use in a well-ventilated area. Avoid contact with eyes. Wash hands thoroughly with soap and warm water after use. Do not ingest. When spraying or sanding, use a properly-fitting NIOSH approved respirator per the manufacturer’s instructions. Skin contact: Thoroughly wash with soap and warm water before Maker Pro Paint™ dries. Wearing gloves is recommended. Eye contact: Rinse with clean water for 15 minutes. Seek medical attention. Inhalation: Use in well ventilated areas and wear a NIOSH approved respirator. Refer to Maker Pro Paint™ SDS for additional information.

IMPORTANT - The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.



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COLOR OPTIONS

Carbon Black

Titanium White

Pyrrrole Red

Hansa Yellow

Ultra-Marine Blue

Daylight Blue

Phthalo Green

Lime Green

Violet

Burnt Umber

Burnt Sienna

Magenta

Pyrrrole Orange

***Mix and blend colors to create
your own custom color palette.***

Custom Color Formulations Are Available minimum quantity purchases required.

**Color values represented here are approximate, actual colors may vary.*

