



chemex
industries, inc.

Technical Report

MONOBOND

Multi Surface Primer, Sealer & Bonder

MONOBOND Primer/Sealer/Bonder is a water base, quick drying urethane-modified acrylic developed to provide exceptional adhesion and hardness to difficult-to-paint surfaces such as:

- Glossy Tiles
- Fiberglass
- Plastics
- Old Concrete
- Porcelain
- Glazed Tiles
- Wood
- Kynar
- Formica
- Glass
- Aged Alkyd
- Metal (non-ferrous)

Basic Uses:

MONOBOND can be used for vertical or horizontal, interior and exterior applications. It can be top coated with acrylic/latex, oil based alkyds, epoxies, urethanes, etc.

Advantages:

- Exceptional Adhesion
- Universally Compliant
- Application Temperatures: 40-100°F
- Acceptable for Use in USDA Inspected Facilities
- Tintable
- Slight to No Odor
- Available in Clear
- Quick Dry to Re-coat
- Spray, Brush, or Roll On

Product Qualifications:

Cal Green.....	Yes
OTC (Industrial Maintenance).....	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS).....	Yes

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Technical Report

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— continued —

Technical Data:

Composition.....	Urethane-Modified Acrylic
White Base Solids by Weight.....	52%± 2
White Base Solids by Volume	42% ± 2
Clear Base Solids by Weight.....	34%± 2
Clear Base Solids by Volume	37% ± 2
VOC level	<100 g/L
Weight per Gallon.....	10.5 Lbs
Viscosity.....	90-100 KU
Color.....	White Base and Clear Base
Finish.....	Smooth Flat
Flash Point	Non-Flammable
Recommended Dry Film Thickness.....	2-2.5 Mils
Coverage Rate.....	250-400 sq/ft/gallon
Wet Mil to Achieve DFT.....	4-5 Mils
Dry to Touch (70-80°F) and Relative Humidity 50%.....	30 Minutes
Dry to Topcoat	2-3 Hours
Full Cure.....	One Week
Shelf Life.....	2 Years

Surface Preparation:

- Conduct a thorough test patch to ensure proper adhesion.
- To maximize adhesion to the surface, sand and scuff glossy/hard surfaces (ex. glazed tiles, porcelain, formica, kynar, glass, fiberglass and glossy aged paint). Feather back and sand all rough edges and patched areas.
- Surfaces must be clean, dry and free of dirt, chalk, grease, oils, salts and any contaminants that inhibit proper adhesion.
- Do not coat surfaces that display hydrostatic pressure or moisture levels above 15%.
- Mold and mildew must be completely removed by cleaning the surface with a mixture of 1-part chlorine bleach and 3-parts water. Then allow the surface to dry to <15% moisture and apply MONOBOND.

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— continued —

Concrete/Masonry/Drywall/Plaster:

Should be allowed to cure for a minimum of 28 days and be free from adhesion affecting contaminants, alkali (efflorescence residue), dust, dirt, etc.

Wood:

Unpainted wood, wood in poor condition and wood siding should be sanded smooth, wiped clean and then primed with MONOBOND.

Non-Ferrous Metals (galvanized, aluminum, stainless steel, etc.):

Remove all oils or films with a neutral detergent or emulsion cleaner. Blast lightly with fine abrasives or conduct a light etching. Then rinse the surface with zinc and coat within 3 hours with MONOBOND to avoid oxidation.

Ferrous Metals:

Apply a rust inhibitive primer to the prepared surface prior to MONOBOND.

Previously Painted Surfaces:

If in sound condition, clean the surface of all adhesion affecting contaminants.

- Smooth, hard, or glossy coatings and surfaces should be dulled by abrading to maximize adhesion.
- Apply a test area, allowing primer to dry one week before necessary. Priming with MONOCHEM 21 “stick to anything testing the adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Priming with MONOCHEM 21 “stick to anything primer” is another option.

WARNING! Removal of old paint by sanding, scraping, or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health affects, especially in children or pregnant women. For more information, call the National Lead Information Center at 1-800-424-LEAD or contact your local health authority. Do not use hydrocarbon solvents for cleaning.

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— continued —

Application Method:

- **Brush:** Use a nylon/polyester brush
- **Roller:** Use a quality 1/4" to 3/4" nap roller
- **Conventional Spray:** Use a 0.013-0.015" tip at 1500-1750 psi.

Application Recommendation:

One coat of is required. Allow 2-3 hours of dry time before top coating. If 24 hours are exceeded, the MONOBOND will need to Always conduct a test patch for approval prior to painting the substrate.

Packaging:

MONOBOND is packaged in one-gallon cans and five-gallon pails.

Clear: Short-Fill: 6 Ounces / Gallon

White Base: Short-Fill: 2 Ounces / Gallon

Shelf Life:

Two (2) years in original sealed and covered container at temperatures between 60°F and 80°F.

Safety and Precautions:

- Refer to MONOBOND SDS sheets before use.
- Do not apply when surface temperature is below 40°F or above 90°F.
- Do not apply in windy conditions or if rain is eminent within 48 hours.
- Do not apply to surfaces containing more than 15% moisture.
- Do not apply to surfaces displaying a pH over 7.
- Do not apply to surfaces that have hydrostatic pressure.
- Check adhesion of old paint before repainting by testing a small area.
- Stir materials thoroughly before thinning (up to 8 ounces per gallon).
- Avoid exposure of fresh application to steam for 48 hours and do not wash or scrub for seven (7) days.
- Protect from freezing. Keep away from children.
- Provide adequate ventilation and wear proper protective equipment during application.

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— continued —

First Aid:

Eye Contact: Flush the affected eyes with fresh water for at least 15 minutes and call a physician.

Skin Contact: Wash skin with soap and water.

Inhalation: Get fresh air if affected by the vapor or spray mist.

Ingestion: Do not induce vomiting and call a physician immediately.

Equipment Cleanup:

Clean tools and equipment immediately after use with warm soap and water.

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