



Advanced Technology

UMA[®] Brand White Bonder and Primer/Sealer

Applications:

- Aluminum
- Steel*
- Iron*
- Galvanized
 - Trim, Sheet Metal, etc.
- Non-Ferrous Metals
- Tile
- Porcelain
- Glazed Block
- Formica
 - Cabinets, Paneling
 - Doors, Trim
- PVC Shutters
- PVC Clad Windows, etc.
- Fiberglass
 - ie. Garage Doors
- Glass
- Old Glossy Paint
- Wood
- Plywood
- Hardboard, Wallboard
- Masonry
- Pre Coated Siding
 - ie. Silicone Polyester
 - Kynar

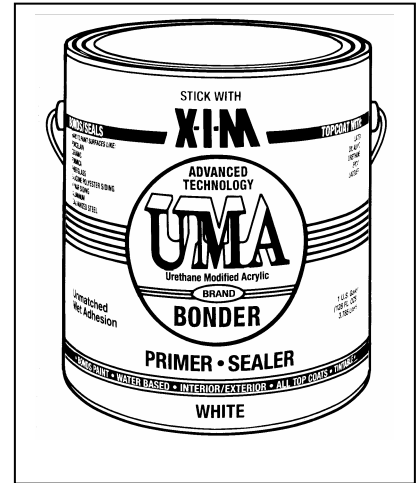
Features and Benefits:

- Excellent Wet Adhesion
- Low Odor
- Sandable
- Excellent Leveling
- Use With Industrial
 - Grade Top Coats
 - Alkyds, Acrylics,
 - Epoxies, Urethanes,
 - Lacquers
- Sprayable With:
 - Conventional Air,
 - Airless, HVLP
- Soap & Water Clean-Up
- Non-Flammable
- Primes and Seals
- Helps Prevent Flaking,
 - Blistering, Peeling
- Bonds Paint

Product description:

XIM Advanced Technology UMA White is a high performance water-based Bonder that has both primer and adhesive-like properties. It provides excellent adhesion and wet adhesion to "Hard-to-Paint" surfaces, even when wet. Sanding may not be necessary for most clean and dull paintable surfaces, but sanding or dulling the surface is required for maximum adhesion, specifically on surfaces such as tile, porcelain and glazed block. UMA can be used for both indoor and outdoor applications. and can be used with Oil/Alkyd, Latex, Urethane, Epoxy and Lacquer top coats. Advanced Technology UMA will form a hard film when fully cured. Its resistance to scratch testing can vary with the type of surface and the degree of cure, however, when full cured, they will provide long lasting adhesion.

* For maximum Rust Protection, Use XIM 360 Rust Inhibiting Primer



Product Use: This Bonder is an ideal prime coat for **Wood, Metals, Plaster, Hardboard, Most Plastics, Fiberglass, Formica, Tile, Porcelain, Glazed Block, Glass, etc.** Also recommended for priming **Kynar and Silicone Polyester pre-coated siding.** Note: Because there are many types of surfaces, plastics and composite materials, always test a small area first for adhesion and topcoat compatibility before starting. When priming Kynar and Silicone Polyester pre-painted siding at least two test patches in different areas is a must to demonstrate adhesion that is acceptable to you. Not recommended for tubs, sinks or showers where continuous water or hot water contact occurs. Not recommended for use on polyethylene, polypropylene, Teflon or nylon.. Not recommended for below grade application. For extra corrosion protection on iron and steel use XIM 360 Rust Inhibiting Primer. On extremely porous surfaces or severe staining types of wood additional coats of UMA may be required. Certain staining agents, such as tannic acid or mineral salts from water may require XIM's solvent based stain killers. Advanced Technology dries to touch in about 30 to 45 minutes and will reach full hardness in 7 to 10 days depending on temperature, humidity and film thickness. It can be nib sanded after about 3 hours and lightly sanded 24 hours after application. It can be used for indoor or outdoor applications and can be top coated with all top coats including **latex, oil-alkyds, lacquers, urethanes and epoxies.** Shelf life is 36 months, unopened at room temperature of 77 degrees F.

Packaging Data:	UMA brand White #1105
Gallons	- 4 per carton
Quarts	- 6 per carton
Pints	- 12 per carton
Aerosols	- 12 per carton (See Separate Data Sheet For Details)
Pails	- 5 gallon capacity

Technical Service Information: For further information about this or any other XIM product, contact our Technical Service Staff toll free at (800) 262-8469.

Product Preparation: Advanced Technology UMA is ready to apply from the can. If tinting, use universal tinting colors. Do not exceed two (2) ounces of tint per gallon. Shake or mix well before using.

Surface Preparation: Surface must be clean and dry, free from all grease, wax, oil, polish, loose paint, dirt, rust or other contamination. Clean with a strong abrasive detergent, rinse well and allow to dry. Scrub moldy or mildewed surfaces with bleach and rinse well. When priming hard, glossy surfaces, metal or pre-finished siding clean per SSPC-SP1, which is solvent cleaning. Wipe down the surface with XIM GON Cleaner or Xylene. Do not use mineral spirits, turpentine solvents that will leave oily residues. For very hard, glossy surfaces, roughing the surface with silicon carbide sandpaper before applying the Bonder necessary for best adhesion.

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See us on the Web at www.ximbonder.com

Advanced Technology UMA Brand White Bonder and Primer/Sealer

How to Apply: Apply this Bonder by synthetic fiber brush, ¼ inch synthetic roller or by spray. Avoid any excess foaming by thoroughly wetting the brush or roller with water before applying. The temperature of the surface and the surrounding air should be between 35 deg. F and 100 deg. F. It will dry to touch in about 30-45 minutes under standard conditions (77 deg. F and 50% relative humidity). Thicker coats will take longer to dry. It will generally become hard in about 7 - 10 days. They can be top-coated in 3 hours after application. When top coating with 2-component paints allow 24 hours before painting. Do not paint in direct sun or on a hot surface. Stop application two hours before a heavy dew or rain. If possible plan your painting to avoid rain, moisture and high humidity for the first 24 hours of curing. Advanced Technology covers about 450 square feet per gallon. Caulk seams and edges after priming.

Clean-Up: Clean-up with soap and water. If the UMA “sets-up”, or when cleaning up splatters or spills use warm water or lacquer thinner.

Potential Applications:

Building Material Plastic: More and more plastics are used in the building industry, including PVC sheeting and piping, vinyl shutters, vinyl molding and mill work, laminated Formica paneling and cabinets as well as fiberglass garage doors and other molded parts. First, remove old and loose paint then clean away wax, polish, grease, oil and other contaminants from the surface with a strong abrasive detergent. Wipe the surface with a cleaning solvent such as XIM GON Cleaner or xylene. Dry, then scuff sand the surface for maximum adhesion. Apply the XIM Bonder. wait 3 hours and topcoat. Test for adhesion before starting the job. Advanced Technology UMA is recommended for priming Kynar and Silicone Polyester pre-coated siding. When priming Kynar and Silicone Polyester pre-painted siding at least two test patches in different areas is a must to demonstrate adhesion that is acceptable to you.

Tile, Glazed Block and Brick, Porcelain: Decorative surfaces such as these can be restored and painted. First remove old paint and debris. Repair or patch any broken or damaged areas. Then clean away any wax, polish, grease, oil and other contaminants with a strong abrasive detergent. Wipe the surface with a cleaning solvent such as XIM GON Cleaner or xylene. For maximum adhesion scuff sand or etch the surface with XIM’s etching cream, Etch-I-M, rinse well to remove any etching residues and allow to dry. Apply the UMA Bonder and allow to dry for 3 hours then apply the topcoat. Not recommended for sinks, tubs or shower areas where continuous water or hot water can be present. Note: where flexible seams or soft caulking are present, do not paint over with the UMA. Always plan your job ahead and caulk after painting. Always caulk edges or seams that can trap and hold moisture and, therefore, become the source of coating failure. For exterior jobs - where high water contact is expected or where moisture or dew may accumulate, two coats of the top coat paint are recommended.

Non-Ferrous Metals: With XIM Advanced Technology UMA brand Bonder you can get a long lasting, durable job when painting aluminum doors and window frames, aluminum and copper flashing and trim as well as galvanized steel. Clean away all corrosion and any old paint, dirt, wax and grease. Wipe the surface with a cleaning solvent such as XIM’s GON Prep cleaner. Allow to dry then apply the UMA Bonder (only one coat is required) Allow the UMA to dry for three hours, then apply the top coat.

Physical/Chemical Data:	Advanced Technology UMA brand White Bonder	
Weight per Gallon :	10.67 lb/gallon	
Non-volatile by weight:	44.23%	Non volatile by volume: 28.56%
Viscosity (KREBS Unites):	85 +/- 5 KU	
Spreading rate (@ 1 mil DFT):	450 Square Feet per Gallon	
Application Conditions for both products:	(35° F To 100° F - Agitate before Use)	
Drying Schedule: (ASTM D1640)	to touch: 30 to 45 minutes @ 77 deg. F and 50% RH to top coat: 3 hours @ 77 deg. F and 50% RH dry hard: 7-10 days @ 77 deg. F and 50% RH	
Flash Point (ASTM 3278-82):	>200 deg. F	
VOC :	Less than 100 g/l, 0.83 lb/gal. (Aerosol: Less than 50% VOC by weight)	
Recommended Film Thickness:	1.0 mil dry (35. mils wet)	Flexibility (ASTM D522 - 1 mil cold rolled steel) : Excellent
Cross Hatch Adhesion (ASTM D3359, Method B) :	No loss	Impact Resistance (ASTM D2794 - 100 in. lbs.) : Pass
Temperature Stability: (Up to 300 deg. F intermittently)	Gloss (60 deg, glossmeter): Less than 10	
Top Coats Recommended :	Oil/Alkyd, Latex , 2K Urethane, 2K Epoxy , Lacquers (Aerosol not recommended for Lacquers)	

Comparison Of Advanced Technology UMA Pressurized Aerosol vs. Pint, Quart, Gallon, Pail

Feature	Pint, Quart, Gallon, Pail	Aerosol
Wet Adhesion To Hard-To Paint Surfaces	Excellent	Excellent
Top Coat Compatability	All Top Coats	All Top Coats Except lacquers
Application Temperature Range	35° F to 100° F	60° F to 90° F
Recommended Surfaces	For Most All Surfaces Including Kynar and Silicone Polyester Siding Can be used where pH is Alkaline Not for sinks, tubs, showers or below grade	For Most All Surfaces Not for Kynar and Silicone Polyester Siding Not for use where pH is Alkaline Not for sinks, tubs, showers or below grade

Caution: Keep from freezing. Do not take internally. If sanding, wear a dust mask to avoid breathing sanding dust. Use with adequate ventilation. If you experience eye watering, headache or dizziness wear appropriate, properly fitted respirator during application. Avoid contact with eyes. Wash thoroughly after handling. See separate cautions for the aerosol on the aerosol label. KEEP OUT OF REACH OF CHILDREN. **First Aid:** In case of eye contact, flush with plenty of water for at least 15 minutes and get medical attention. If you experience difficulty in breathing, leave the area to obtain fresh air. For additional information see the Material Safety Data Sheet (MSDS) for this product.



Applications:

Aluminum
 Steel*
 Iron*
 Galvanized
 Trim, Sheet Metal, etc.
 Non-Ferrous Metals
 Tile
 Porcelain
 Glazed Block
 Formica
 Cabinets, Paneling
 Doors, Trim
 PVC Shutters
 PVC Clad Windows, etc.
 Fiberglass
 ie. Garage Doors
 Glass
 Old Glossy Paint
 Wood
 Plywood
 Hardboard, Wallboard

UMA Aerosol Is Not Recommended For Use On Silicone Polyester Or Kynar Pre Coated Siding; Polyethylene, Polypropylene Or For Use On Below Grade Applications Or On Masonry Where the pH (Alkalinity) Is High

Features and Benefits:

Primes and Seals
 Bonds Paint
 Helps Prevent Flaking, Blistering, Peeling
 Excellent Wet Adhesion
 Low Odor
 Sandable
 Excellent Leveling
 Use With These Top Coats
 Alkyds, Acrylics,
 Epoxies, Urethanes,

UMA Aerosol Is Not Recommended For Use With Lacquer Topcoats

Soap & Water Clean-Up

Advanced Technology UMA^{brand}® Aerosol White Bonder and Primer/Sealer

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 Rust Inhibiting Primer



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Packaging Data: UMA brand White #11056 Aerosol
 Aerosols - 12 per carton

Technical Service Information: For further information about this or any other XIM product, contact our Technical Service Staff toll free at (800) 262-8469.

Product Preparation and Directions: Advanced Technology UMA is ready to apply from the can. Shake the can vigorously for one minute after the ball rattles. Shake occasionally during use. Hold the container 8 to 12 inches from the surface being primed. Spray a light, but wet mist coat. Release the spray head after each stroke. When priming is complete, turn the can up-side down and press the valve until it flows clear. If a second coat is required, re-spray within 1 hour of applying the first coat.

Surface Preparation: Surface must be clean and dry, free from all grease, wax, oil, polish, loose paint, dirt, rust or other contamination. Clean with a strong abrasive detergent, rinse well and allow to dry. Scrub moldy or mildewed surfaces with bleach and rinse well. When priming hard, glossy surfaces, or metal clean per SSPC-SP1, which is solvent cleaning. Wipe down the surface with XIM GON Cleaner or Xylene. Do not use mineral spirits, turpentine solvents that will leave oily residues. For very hard, glossy surfaces, roughing the surface with silicon carbide sandpaper before applying the Bonder necessary for best adhesion.

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Advanced Technology UMA Brand White Bonder and Primer/Sealer - Aerosol

How to Apply: Shake the can vigorously for one minute after the ball rattles. Shake occasionally during use. Hold the container 8 to 12 inches from the surface being primed. Spray a light, but wet mist coat. Release the spray head after each stroke. When priming is complete, turn the can up-side down and press the valve until it flows clear. If a second coat is required, re-spray within 1 hour of applying the first coat. The temperature of the surface and the surrounding air should be between 60 deg. F and 90 deg. F. It will dry to touch in about 30-45 minutes under standard conditions (77 deg. F and 50% relative humidity). Thicker coats will take longer to dry. It will generally become hard in about 7 - 10 days. It can be top-coated in 3 hours after application. When top coating with 2-component paints allow 24 hours before painting. Do not paint in direct sun or on a hot surface. Stop application two hours before a heavy dew or rain. If possible plan your painting to avoid rain, moisture and high humidity for the first 24 hours of curing. Caulk seams and edges after priming.

Clean-Up: Clean equipment with soap and water. If the UMA "sets-up", or when cleaning up splatters or spills use warm water or lacquer thinner.

Potential Applications:

Building Material Plastic: More and more plastics are used in the building industry, including PVC sheeting and piping, vinyl shutters, vinyl molding and mill work, laminated Formica paneling and cabinets as well as fiberglass garage doors and other molded parts. First, remove old and loose paint then clean away wax, polish, grease, oil and other contaminants from the surface with a strong abrasive detergent. Wipe the surface with a cleaning solvent such as XIM GON Cleaner or xylene. Dry, then scuff sand the surface for maximum adhesion. Apply the XIM Bonder. wait 3 hours and topcoat. Test for adhesion before starting the job. The UMA Aerosol is not recommended for priming Kynar or Silicone Polyester Pre-Coated Siding.

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Physical/Chemical Data as Supplied: Advanced Technology UMA brand White Bonder Aerosol

Application Conditions :	(60° F To 90° F - Shake well before use)
Drying Schedule: (ASTM D1640)	to touch: 30 to 45 minutes @ 77 deg. F and 50% RH to top coat: 3 hours @ 77 deg. F and 50% RH dry hard: 7-10 days @ 77 deg. F and 50% RH
Flash Point (ASTM 3278-82):	33 -65.6 deg. C (TAG Closed Cup)
VOC :	Less 50% By Weight
Recommended Film Thickness:	1.0 mil dry
Gloss (60 deg, glossmeter):	Less than 10
Top Coats Recommended	Oil/Alkyd, Latex, 2K Urethane, 2K Epoxy (Not Recommended Lacquers)

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Feature	Pint, Quart, Gallon, Pail	Aerosol
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Recommended Surfaces	For Most All Surfaces Including Kynar and Silicone Polyester Siding Can be used where pH is Alkaline Not for sinks, tubs, showers or below grade	For Most All Surfaces Not for Kynar and Silicone Polyester Siding Not for use where pH is Alkaline Not for sinks, tubs, showers or below grade

Caution: Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build up of vapors. Use only with adequate ventilation. Do not breathe vapor or spray mist. Follow OSHA regulation 29CFR 1910.134 for respirator use. Where overspray is present, or if the concentration of solvents is not known or exceeds the level at which the air purifying respirator is effective, a positive pressure air-supplied respirator is recommended. (TC 23C NIOSH/MSHA) In all cases follow the respirator manufacturer's directions for respirator use. Close containers after each use. Avoid contact with skin.

First Aid: If swallowed, do not induce vomiting. In case of eye contact, flush with plenty of water. **CALL A PHYSICIAN IMMEDIATELY.** Avoid prolonged skin contact. Avoid breathing vapors. For additional information see the Material Safety Data Sheet (MSDS) for this product.