

XIM SPECIFICATION NO. 1003

DATE : April 26, 2005

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PRIMING HARD, GLOSSY SURFACES

APPLICABLE SURFACES:

Porcelain, Porcelainized Steel, Ceramic, Ceramic Tile, Glazed Block, Blazed Brick, Glass

BACKGROUND:

These surfaces have several things in common: very low surface energy, very hard, and high gloss. They cause problems with paint adhesion and paint durability. An adverse environment (exterior exposure, high moisture, humidity, changes in temperature, etc.) will shorten the life of the coating. Paint failures on these types of surfaces generally start at edges or paint breaks where moisture can undercut the paint film.

PRODUCTS:

Primers:

- 400W White Quick Dry, Solvent Based Bonding Primer (Product No. 1102)
- 400W ES, Solvent Based Bonding Primer (Product No. 1144)
- 400 Clear Quick Dry, Solvent Based Bonding Primer (Product No. 1101)
- 100 Clear, Solvent Based Bonding Primer (Product No. 3101)
- Advanced Technology UMA brand[®] White Water Based Bonding Primer (Product No. 1105)
- Advanced Technology UMA brand[®] Tintable Water Based Bonding Primer (Product No. 1106)
- Ceramic and Porcelain 2-Component, Solvent Based, Epoxy Primer (Product No. 4203)

Top Coat Paints:

EXTERIOR -Semi-Gloss or Gloss Alkyds, Semi-Gloss 100% Acrylic Latex, Industrial Enamels, urethane paints. (Check the top coat – primer compatibility)

(Top coats must have excellent gloss and color retention. They should have excellent “touch-up” characteristics since some maintenance and touch-up will be required each year.)

SURFACE PREPARATION:

The surface must be clean and free from dirt, grease, oil, wax, soap residue, old paint and other contaminants. Clean by power washing with a strong detergent or by washing with an abrasive detergent and abrasive pad. Rinse completely and allow to dry. Areas that are prone to grease and oil contamination should be solvent cleaned with XIM GON Prep Cleaner or Xylene.

For Best results:

1. Etch the surface with XIM’s etching cream, Etch-I-M (#4408). Follow the directions and safety instructions.
or
2. Reduce the gloss of the surface by scuff sanding using 220 to 325 grit silicon carbide sand paper. Make sure to remove all sanding dust before priming.

Make sure to remove all old caulk before painting and to re-caulk all edges and paint breaks after painting.

APPLICATION:

The primers can be applied by brush, roll or spray. Follow the application instructions for the various primers as outlined on their Data Sheets and Labels. Generally from about 1.0 mil is the desired dry film thickness for the primers. Each primer will have its own spread rate. See the labels or data sheets for square foot coverage.

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CONSIDERATIONS:

One of the reasons to paint an existing hard, glossy surface is to change the color – not the gloss or texture. Adhesion of the primer must be outstanding, otherwise the paint or top coat will fail.

It is strongly recommended that a STA (Standard Test Area) be done. The STA must include the exact type and degree of cleaning, dulling, priming and painting that is to be done for the entire job. Be sure to test the coating system under the conditions the paint system will have to hold up to. If possible run the test over the winter months to subject the test patch to the most severe. conditions.

Since paint failures generally occur where there is an edge or paint break, caulk all edges to prevent moisture from undercutting the paint film.

Understand that once painted, routine maintenance and repair touch-up will be required based on the conditions of use and the environment.

TOP-COAT COMPATIBILITY CHART

XIM PRODUCT →	400W WHITE	400W ES	400 CLEAR	UMA WHITE	UMA TINTABLE	100 CLEAR	CER. & PORC.
PRODUCT NUMBER	1102	1144	1101	1105	1106	3101	4203
Alkyd Enamel	OK	OK	OK	OK	OK	OK	OK
Siliconized Alkyd Enamel	OK	OK	OK	OK	OK	OK	OK
Urethane (1 Part)	OK	OK	OK	OK	OK	OK	OK
Urethane (2 Part)	NR	OK	NR	OK	OK	OK	OK
Latex	OK	OK	NR	OK	OK	NR	OK
Lacquer	NR	TEST	NR	OK	OK	NR	OK

Note: Follow instructions on the individual product Data Sheets.