XIM SPECIFICATION NO. 1001

DATE: April 26, 2005
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PRIMING PORCELAIN, CERAMIC AND GLAZED SURFACES

APPLICABLE SURFACES:

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

BACKGROUND:

These types of surfaces are very hard and glossy and have a low surface-energy. It is difficult to get paint to adhere for long-term results. Chipping, cracking and peeling paint is the norm unless good surface preparation and a high quality bonding primer are used. 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)
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:

INTERIOR– Flat, Semi-Gloss or Gloss Alkyds, Flat, Semi-Gloss Acrylic Latex
EXTERIOR -Semi-Gloss or Gloss Alkyds, Semi-Gloss 100% Acrylic Latex, Industrial Enamels

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 we recommend etching the surface to increase the surface profile which generates better "Tooth" for the paint. Use XIM's etching cream, Etch-I-M after initial cleaning of the surface . Apply the etching cream liberally to the surface. After five minutes, scrape up the etching cream. It can be used over and over. Rinse the surface with clean water using an abrasive pad to remove any remaining etching cream and the silica scum. Do not allow the etching cream to dry out before removing. Read and follow the etching cream instructions thoroughly. An alternate method of dulling the surface is to scuff sand using 325 grit silicon carbide sand paper. 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 1.00 to 1.50 mils is the desired dry film thickness for the primers.

CONSIDERATIONS:

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.

Since paint failures generally occur where there is and edge or paint break, calk 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.