



UNICELL

Chemical Coating

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UNICELL®
thinking healthcare™

KEM AQUA® Bonding Primer for Plastics

Description:

KEM AQUA® Bonding Primer for Plastics is a one component, low VOC, acrylic latex coating intended as a tie coating or adhesion promoting primer over structural foam plastics, such as polystyrene, polyphenylene oxide, polycarbonate, and gas counter pressure molded plastics. It can be top coated with a wide range of coatings used in the business machine and electronic cabinetry market.

Specifications:

Plastic: Due to the diverse nature of plastic substrates, a coating or coating system must be tested for acceptable adhesion to the substrate prior to use in production. Reground and recycled plastics along with various fire retardants flowing agents, mold release agents will affect coating adhesion.

Advantages:

Excellent adhesion to a wide range of structural foam plastics including gas counter pressure molded plastics.

Unicell Applications:

Coating used on the following Unicell product:

Cells

Drawer fronts

Hinge doors

Accessory doors



POLANE® 700T Water Reducible Enamel

Description:

POLANE® 700T Water Reducible Enamel is a low VOC, one component water reducible, poly-urethane-acrylic enamel intended for the business machine and electronic cabinetry market. As a smooth or texture coating system, on structural foam or injection molded plastic or treated steel, it provides performance properties similar to two components solvent based polyurethanes in these markets.

Specifications:

Plastic: Due to the diverse nature of plastic substrates, a coating or coating system must be tested for acceptable adhesion to the substrate prior to use in production. Reground and recycled plastics along with various fire retardants flowing agents, mold release agents will affect coating adhesion.

Advantages:

High quality - meets the performance requirements of the Business Machine/ Electronic Cabinetry market

Water based- No flash point - No fire hazard

Improved performance over acrylic latex coatings in this market

Excellent hardness

Free of lead and chromate hazard

Good solvent and chemical resistance

Excellent resistance to color change as tested on HOP-UV cabinet

Unicell Applications:

Coating used over KEM® Aqua Binding Primer for the following Unicell product:

- Cells
- Drawer fronts
- Hinge doors
- Accessory doors



UNICELL Chemical Coatings

Coated UNICELL® Test Report

KEY:	1 Severely Attacked
	2 Slightly Attacked
	3 Stained
	4 Stain Removable
	5 Not Affected

Group C-Laboratory Chemicals	1 Hour Exp. Time	24 Hours Exp. Time	Comments
Acetic Acid Glacial	5	5	
Acetic Acid 10%	5	5	
Hydrochloric Acid CP	5	2	Bleached
Hydrochloric Acid 50%	5	2	Bleached
Hydrochloric Acid 1.0N	5	5	
Sulfuric Acid 50%	5	2	
Sulfuric Acid 10%	5	5	
Nitric Acid 10%	5	5	
Phosphoric Acid 85%	5	5	
Phosphoric Acid 10%	5	5	
Chromic Acid 50%	5	3	
Chromic Acid 25%	5	3	Very Slight Discoloration
Chromic Acid 3%	5	3	Very Slight Discoloration
Sodium Dichromate/ Sulfuric Acid Glass Cleaner	5	4	Bleached
Sodium Hydroxide 50%	5	5	
Sodium Hydroxide 1.0N	5	5	
Potassium Hydroxide 50%	5	5	
Potassium Hydroxide 25%	5	5	
Sodium Chloride Sat.	5	5	
Sodium Chloride 5%	5	5	
Aq. Ammonia Sat.	5	5	
Hydrogen Peroxide 30%	5	5	
Hydrogen Peroxide 3%	5	5	
Bromine Water Sat.	4	4	Removed w/ Soap & Water
Ferric Chloride 70%	5	5	

Group C (cont'd)

Ethyl Alcohol	5	5	
Methyl Alcohol	5	5	
Isopropyl Alcohol	5	2	
Formaldehyde 37%	5	2	
Ethyl Ether	5	-	
Carbon Tetrachloride	5	2	
Silver Nitrate 0.1N	5	3	Stained with Silver Metal
Naptha	5	5	
Gasoline	5	5	
Trichloroethylene	5	5	
Triethane	5	3	
Perchlorethylene	5	3	
Ethyl Acetate	5	3	
Benzene	5	4	
Glycerin	5	5	
O-Xylene	5	5	
Mertholate	4	3	

Group D - Chemical Indicator

Phenolphthalein	5	5	
Methylene Blue	4	3	
Bromophenol Blue	4	4	Removed w/Soap & Water
Methyl Red	4	3	
Dichlorofluorcene	4	3	
Methyl Orange	4	4	Removed w/Soap & Water

Group E - Other

Cigarette Burn	1	-	Burnt Coating & Base Material
Match Burn	1	-	Burnt Coating & Base Material
Blood	5	5	

