



MS90 WATERBORNE MULTICOLOR SPECIFICATIONS

DESCRIPTION - Polyurethane modified waterborne multicolor finish. Patented state-of-the-art waterbase technology. Designed for interior metal compartment areas. This multicolor finish offers apparatus manufacturers a way to improve production by camouflaging scratches, grinds, and weld marks. Available in a wide array of color and pattern size combinations to fulfill functional and decorative needs.

APPLICATION GUIDELINES

STEP 1: Prime metal substrates with a suitable primer*

STEP 2: Spray Waterborne Multicolor with a conventional air spray gun using dual regulated pressure pot. For specific details on air spray application and technique, contact our Technical Service Department

STEP 3: Clear Topcoat (Optional) - Can be top coated to increase gloss and/or provide specific protection.

DRY TIME – Air Dry (70 deg. F and 50% humidity): To Touch, 1-2 hours. To Use, 24 hours. Full Cure 5-7 days.

Force Dry (165-200 deg. F for 40-60 minutes): To Touch, surface will be dry to touch after cooling.

(Dry time will vary depending on temperature, humidity, film thickness and type of surface).

TECHNICAL DATA

FINISH - Flat finish with slight physical texture

GLOSS - 10 gloss units with 60° gloss meter (ASTM D-523)

COVERAGE - Approximately 120 sq. ft./gallon

FIRE RATING - Class A (ASTME-84-89a)

FLASHPOINT - Non-flammable

SOLVENT AND OIL RESISTANCE - Withstands 25 MEK rubs - Motor oil, diesel fuel, no visible damage after 100 hr. exposure

FILM HARDNESS - H - 2H pencil hardness after full cure (ASTM D-3363)

IMPACT RESISTANCE - 80 inch pounds direct (ASTM D-2794)

ABRASION RESISTANCE - Taber abrasion 85.2 mgms. Loss/1000 cycles. CS-17 wheels 500 gm. Load (ASTM D-4060)

WASHABILITY - Reflectance recover, 95.4% (ASTM D-3450)

SCRUB RESISTANCE - Over 30,000 cycles (FED STD 141A, Method 6142), 545 cycles (ASTM D-2486)

DETERGENT RESISTANCE - 168 hours @ 77° F. (ASTM D-2248)

STAIN AND HOUSEHOLD CHEMICAL RESISTANCE- No stains from mild acids, chemicals, oil or food (ASTM D-1308)

MILDEW, FUNGUS RESISTANCE AND BACTERIAL INHIBITION - Coating provided complete fungal resistance in accordance with FED STD 141B, Method 6271 using *Aspergillus oryzae*

BACTERIAL INHIBITION - No support of bacterial growth in accordance with ASTM G-22, *Pseudomonas aeruginosa*

ACCELERATED WEATHERING - G-23, Type E. Evaluated after 500 and 1000 hours exposure for:

	<u>500 hrs</u>	<u>1000 hrs</u>	<u>Method</u>
Chalking	very slight	slight	ASTM D-4214
Checking	none	none	ASTM D-660
Cracking	none	none	ASTM D-66
Color change	▲E=2.1		

VOC CONTENT - Maximum 225 grams/liter, 1.88 lbs. per gal. Non photochemically reactive

ODOR - Mild odor while spraying and drying

* For optimal performance it is recommended that a two-component polyurethane or two-component epoxy primer be used along with the proper metal preparation. To insure maximum adhesion of multicolor to primer, multicolor should be applied within 60 minutes of when the primer is touch free. Because of the multitude of primers that exist, each specific system and process should be tested by the user.

MULTICOLOR SPECIALTIES, INC.

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