

MASTERCOAT®

THE MASTERSERIES COATING LINE

AG111 High Performance Finishing System Data

Description:

Two part aliphatic specialty blend urethane.

Colors:

Gloss black, satin black, clear, reds, yellows, blues, greens, oranges and standard tractor colors.

Packaging:

Sold in pre-measured quarts and gallons for easy blending at the job site. Ratio is 2:1.

Uses

MasterSeries AG 111 has nonyellowing, non-chalking properties combines with excellent gloss retention and will retain a high gloss through many years of service. It is suggested, therefore, as a high performance finish in the following areas:

- Automotive Frames and Firewalls**
- Contracting equipment**
- Engines**
- Brake components**
- Battery trays**
- Anti-graffiti coating**
- Mass transit vehicles**
- Bridges and structural steel**
- Industrial floor coating**
- High performance architectural**
- Heavy duty finish for hostile environments**
- Tractor finish**
- Combines**
- Metal building panels**
- High performance chassis coating**
- Trailer hitches**
- Any surface exposed outdoors continuously**
- Extreme chemical and acid exposures**

MasterSeries AG 111 can be applied over a wide variety of prepared and primed substrates including structural steel, cold rolled steel, aluminum, concrete, wood, plastics, and galvanized steel. In some cases, it is selfpriming but is generally used as a top coat over Mastercoat™ permanent rust sealer/surfacer/primer.

TEST DATA

SALT SPRAY, 5% (ASTM B117)

2 coats Mastercoat™ permanent rust sealer primer and one coat AG 111 finish coat applied to a rusted panel and scribed with an "x" through center plate. After 14,000 hours of exposure only slight undercutting at spots along the "x" was noted and this was less than 1/32 undercut. Total film thickness 8.0 mils approximate.

OUTDOOR EXPOSURE: Two coats Mastercoat™ silver permanent rust sealer, one coat AG 111 argent blue applied to the Pittsburgh Homestead High Level Bridge. At the end of 14 years, less than 5% corrosion was noted.

Tabor abrasion (CS-17 1000 gms.)

1000 cycles 15 mgs.

Pencil hardness 2 H

Flexibility (ASTM D-222) Pass 1/8"mandrel bend

MEK Double Rubs, 48 hr. cure Pass 100

Gardener Impact 160 in. lbs. direct and reverse

CHEMICAL RESISTANCE

EXCELLENT

90 days immersion

Hydrochloric Acid 10% Ethylene Glycol

Sulfuric Acid 10% Ethyl Acetate

Nitric Acid 10% Methyl Ethyl Ketone

Caustic Soda 40% Methyl Isobutyl

Ketone Ammonium Chlorate 30%

Perchloroethylene

MIL-E 23699 Hydr. Oil Tricresyl Phosphate

Oxalic Acid 10% Skydrol A500

Citric Acid JP-4 Jet Fuel

Gasoline

Sodium chloride 10%

Ammonium chloride 30%

Mil-e-23699 Hydraulic oil

Oleic acid

Skydrol A500

JP4 jet fuel

Tricresyl phosphate

GOOD

60 days immersion

Tolulene Sulphuric Acid 30%

Xylene Phosphoric Acid 50%

Methanol Lactic Acid 85%

Ethanol Oxalic Acid

Acetone FAIR

Ammonia 10%

Formic acid 10%

POOR

less than 30 days immersion

Methylene Chloride

RATING SYSTEM

90 days immersion is excellent, 60 days is good, 30 days is fair. Tests were run in total immersion.

SURFACE PREPARATION

New metal surfaces should be cleaned of oil, grease, and dirt. To obtain optimum results, the metal should be sandblasted and Mastercoat™ urethane primer applied then topcoated with MasterSeries AG 111 if metal surface is rusted and sandblasting is not practical from an application or cost standpoint. Master-Series urethane primer can be applied directly over rust which is tightly adherent. Although this situation is not as ideal as sandblasting, excellent results have been obtained. When painting over previously painted surfaces, a spot test should be made to check for lifting, or incompatibility with the old coating. Scuff old paint with 280 grit before painting. If Mastercoat™ silver primer has hardened beyond 7 days, scuff with 280 grit to ensure adhesion. It is extremely important that this surface is free of all moisture prior to coating application or blistering of paint film may occur.

APPLICATION

AG111 can be applied immediately after mixing the two components. **WEAR RUBBER GLOVES BEFORE OPENING CANS.**

Step 1: Stir Part "A" thoroughly.

Step 2: Mix ratio is 2:1. You can dump entire contents of hardener (Part "B") into Part "A". Or in a separate container, you can mix two parts of "A" into one part of "B".

Step 3: Mix "A" and "B" together thoroughly. If reduction is required, use 10% MCT101 thinner. These instructions apply to brush painting. A soft China bristle brush or a short nap roller is recommended.

When spraying AG111, a charcoal respirator is required and should be worn by all personnel in the area. In poorly ventilated areas, a fresh air supplied mask is required. When spraying AG111, it is recommended that a tack coat is placed down first (fog coat) followed by a double wet pass. Thin coats are recommended. Recoat time is generally 3 hours. Pot life is 6 hours. AG111 should be stored at room temperature for best results.

WARNINGS: Keep out of reach of children. Harmful or fatal if swallowed. Vapor harmful. Use with adequate ventilation. Avoid contact with skin. Combustible. Keep away from heat and open flame. Close container after use. Avoid contact with eyes and skin. In case of eye contact flush immediately with plenty of water for 15 minutes. CALL A PHYSICIAN. In case of skin contact wash thoroughly with soap & water.

COMBUSTIBLE. Use only with adequate ventilation. If engineering and administrative controls of contaminants are not feasible wear a vapor/particulate respirator such as #8711 manufactured by 3M Co. or equivalent during application and until work area has been exhausted of all vapor and spray mist. Individuals with chronic respiratory problems or prior respiratory reactions to isocyanates must not be exposed to vapors or spray mist containing isocyanates. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. CONTAINS AROMATIC POLYISOCYANATE PREPOLYMER, MAY CAUSE LUNG IRRITATION AND ALLERGIC RESPIRATORY REACTION.

P
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To order or for more information, call us at

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Monday through Friday 9am – 9pm EST

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