

## ARMMC100X

### MULTI PURPOSE PRIMER/COATING FOR METAL, STEEL, WOOD, FIBERGLASS, AND PLASTIC

#### PRODUCT DESCRIPTION

A single-component Moisture-Cured Polyurethane Aluminum Coating boasts outstanding adhesion to sound surfaces, tightly adherent rusty steel, and even marginally prepared surfaces. This coating, with its low viscosity and superior "wetting" properties, undergoes a swift molecular weight transformation as it polymerizes into a high molecular weight finish, offering exceptional corrosion and abrasion resistance. Its resistance to creeping, undercutting, and blistering surpasses that of epoxy primers. Additionally, ARM100X serves as both a barrier primer and tie coat, effectively preventing the lifting of strong solvent top coats over conventional coatings and most chemical coatings.

#### CHEMICAL AND PHYSICAL ANALYSIS

SHELF LIFE	12 MONTHS
MIX RATIO	1 PART MC (STIR WELL)
POT LIFE	MOISTURE CURING
SOLIDS BY VOLUME	54%
PACKAGING	1 GAL
COLORS	ALUMINUM (GRAY)
RECOMMENDED THICKNESS	2-4 MILS PER COAT
COVERAGE	300-400 SF PER GALLON @ 4 MILS
CURE SCHEDULE	-
TACK FREE	30 MINS - 1 HOUR
RECOAT TIME	2-6 HOURS
FULL CURE	3-5 DAYS
FINISH	LOW SHEEN
APPLICATION	ROLL OR BRUSH
APPLICATION TEMPERATURE	18°F TO 140°F DRY
DRY SERVICE TEMPERATURE	400°F
VOC	446 G/L

CURE SCHEDULE TIMES ARE APPROXIMATE AND WILL BE AFFECTED BY TEMPERATURE CONDITIONS AND RELATIVE HUMIDITY

#### FEATURES

- Primer for all types of surfaces.
- Outstanding abrasion resistance.
- Excellent "wetting out" properties over sound, rusty steel
- May be topcoated with most generic type coatings.
- Very good weather resistance.
- Fast recoating, 1-2 hours.
- High heat, up to 400°F dry.
- Cures down to 18°F on dry surfaces.
- Excellent as a barrier coat over lead based
- USDA Approved.

#### COMPOSITION

Moisture-Cured Polyurethane

#### PACKAGING

Sold in 1 Gal units

#### LIMITATIONS

1. Do not apply over frost, wet or damp surfaces or extremely high humidity conditions.
2. Not recommended as tank lining for constant immersion.
3. Must be recoated the same day.
4. Partially used containers must be reclosed tightly to prevent moisture in air from reacting with material and forming a tough skin. Skin can be removed and remaining material used. Be sure to stir.

#### ADVANTAGES



Abrasion Resistant



Compatible with multiple substrates



1-Part Product



High Heat Resistance (up to 400°F)



Corrosion Resistant



Low Temp Drying (down to 18°F)

#### CAUTIONS

ARM100X is flammable. Keep away from all sources of ignition during mixing application and cure. Contains aromatic polyisocyanates. Proper ventilation is necessary when painting indoors or confined areas. Vapors and spray mist may cause eye/skin irritation as well as allergic reactions. Always wear protective clothing, goggles, impervious gloves and use NIOSH approved respirators. For industrial use only. Keep out of reach of children. This product is sold without warranty as to performance expressed or implied. Users are urged to make their own tests to determine the suitability for their particular conditions.

## INSTRUCTIONS

### ARMMC100X

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**PLEASE READ INSTRUCTIONS THOROUGHLY BEFORE APPLICATION BEGINS.**

#### PRODUCT USES

- EXCELLENT AS A UNIVERSAL PRIMER FOR METAL, STEEL, FIBERGLASS, WEATHERED GALVANIZED METAL. ALSO OVER OLD COATINGS AND FOR POLYURETHANE FOAM PROTECTION.
- FOR USE OVER SOUND, TIGHTLY ADHERENT RUST WHERE ONLY WIRE BRUSH OR HAND TOOL CLEANING IS FEASIBLE. FOR REMEDIAL PAINTING OF FENCES, METAL BUILDINGS, HAND AND GUARD RAILS, PUMPS, PIPELINES, GRATING, AND OTHER HARD TO CLEAN SURFACES.
- IDEAL AS A BARRIER COAT OVER LEAD BASED COATINGS AND CONVENTIONAL COATINGS. THE LOW SOLVENCY POWER OF ARM100X ENABLES IT TO BE APPLIED OVER MOST TYPE COATINGS WITHOUT CAUSING LIFTING. A TEST SAMPLE SHOULD BE MADE TO CONFIRM ADHESION. MOST GENERIC TYPES OF CHEMICAL OR CONVENTIONAL COATINGS MAY BE APPLIED OVER ARM100X WITH EXCELLENT ADHESION.
- HAS EXCELLENT CHEMICAL RESISTANCE AS A FINISH COAT TO PROTECT METAL SURFACES IN CHEMICAL PLANTS, REFINERIES, PULP AND PAPER MILLS, WASTE AND WATER TREATMENT PLANTS, ELECTRIC GENERATING STATIONS, FERTILIZER PLANTS, FOOD PROCESSING, PHARMACEUTICAL, ORE PROCESSING OPERATIONS, MARINE INSTALLATIONS, ETC.

#### SURFACE PREPARATION

##### STEEL

- FOR BEST RESULTS, SAND BLAST TO A SSPC-SP6 "COMMERCIAL" BLAST FINISH. WHERE BLASTING IS NOT APPROPRIATE, REMOVE ALL LOOSE RUST AND MILL SCALE BY POWER WIRE BRUSHING OR HAND TOOL CLEANING. A TIGHTLY ADHERENT RUSTY SURFACE IS ACCEPTABLE.

##### GALVANIZED STEEL - ALUMINUM

- NEW - BRUSH BLAST PER SSPC-SP7 BEFORE APPLYING ARM100X.
- OLD, WEATHERED, OR RUSTY - REMOVE ALL OIL, GREASE, DIRT, AND OTHER FOREIGN MATTER. SURFACE SHOULD BE REASONABLY CLEAN, DRY, AND FREE OF CONTAMINANTS. REMOVE ALL LOOSE RUST, ETC., AS OUTLINED ABOVE UNDER STEEL.

##### PREVIOUSLY PAINTED SURFACES

- REMOVE ALL LOOSE, PEELING, OR BLISTERED PAINT, AND ANY OTHER SURFACE CONTAMINANTS. MAKE SURE SURFACE IS SOUND AND DRY. APPLY A TEST PATCH OF ARM100X OVER EXISTING COATING TO INSURE GOOD ADHESION.

#### MIXING INSTRUCTIONS

ARM100X IS MADE READY FOR USE BY STIRRING SO THAT THE ALUMINUM PIGMENT IS THOROUGHLY DISPERSED IN THE RESIN AND A UNIFORM "SILVER" COLOR IS ACHIEVED. DO NOT USE A PAINT SHAKER. WHEN USED OVER A PERIOD OF TIME, STIR OCCASIONALLY TO MAINTAIN UNIFORM MIX. THINNING IS NOT USUALLY NECESSARY. IF NEEDED, USE UP TO 10% SA-50 URETHANE REDUCER WHICH IS A WATER FREE GRADE. ALWAYS KEEP PARTIALLY USED CONTAINERS TIGHTLY SEALED TO PREVENT AIR MOISTURE FROM REACTING WITH THE MATERIAL AND FORMING A TOUGH SKIN. SKIN CAN BE REMOVED AND REMAINING MATERIAL USED.

**NOTE: ALWAYS WEAR PROTECTIVE GLOVES AND CLOTHING WHILE MIXING AND APPLYING ARM100X. DO NOT GET ON SKIN.**

ARM100X IS DIFFICULT TO REMOVE.

#### APPLICATION PROCEDURE

ARM100X MAY BE APPLIED BY BRUSH, ROLL, OR SPRAY. FOR ROLLING, USE A ¼" - 3/8" NAP SHED RESISTANT ROLLER. WHEN BRUSHING, USE A BRISTLE BRUSH. FOR SPRAY IT IS IMPORTANT THAT A MOISTURE/OIL TRAP BE USED ON INCOMING AIR AND THAT FLUID LINES BE FLUSHED FIRST WITH AN ANHYDROUS SOLVENT (WATER FREE) SUCH AS XYLENE. ALSO, FLUSH EVERY 1-2 HOURS DURING USE TO KEEP LINES CLEAN FROM MATERIAL BUILD UP. REQUIRED EQUIPMENT IS AS FOLLOWS:

1. AIRLESS SPRAY - USE A MINIMUM 20:1 RATIO PUMP WITH 80-100 PSI INBOUND AIR. RECOMMEND A .013" - .017" TIP. ADJUST PRESSURE FOR PROPER ATOMIZATION BASED ON SELECTED TIP.
2. CONVENTION SPRAY - USE A DUAL REGULATED POT WITH 15-25 PSI FLUID PRESSURE AND 40-50 PSI ATOMIZATION PRESSURE. A BINKS #18 WITH A 704E TIP/AIR CAP IS RECOMMENDED.

WHEN SPRAYING, USE A 50% OVERLAPPING CROSSHATCH PATTERN TO MINIMIZE THE OCCURRENCE OF PINHOLES. DO NOT APPLY TO SURFACES BELOW 18°F OR ABOVE 140°F. DO NOT APPLY OVER DEW OR FROST. THE SURFACE SHOULD BE DRY AND AT LEAST 5°F ABOVE THE DEW POINT.

#### RECOAT TIME

BASED ON TEMPERATURE OF 75°F AND 50% R.H. (RELATIVE HUMIDITY), ARM100X IS TACK FREE IN 1-2 HOURS AND MAY BE OVERCOATED IN 2-3 HOURS. ALWAYS CHECK FOR FINGERNAIL HARDNESS. FOR MAXIMUM ADHESION, RECOAT NO LONGER THAN 6 HOURS AT 75°F AND 50% R.H. HIGH TEMPERATURES AND HUMIDITY WILL SHORTEN RECOAT TIME. WHEN APPLYING CONVENTIONAL PAINTS (E.G., ALKYDS, SILICONE, ENAMELS AND ACRYLICS) ARM100X MUST BE TOP COATED AS SOON AS ARM100X HAS DRIED. IF ARM100X GETS RAINED ON OR HAS CONDENSATION FORM ON ITS SURFACE, A SWEEP BLAST IS NECESSARY TO ABRABE THE SURFACE BEFORE APPLYING A TOPCOAT.

**SEE SAFETY DATA SHEET FOR FULL SAFETY PRECAUTIONS.**

**KEEP AWAY FROM CHILDREN.**