

## **WALL MATE®**

### **Advanced Acrylic Fluid Applied Elastomeric Coating for Walls**

#### **Technical Specifications**

##### **PART 1- PRODUCTS**

##### **Wall Mate Specification**

Providing labor, tools, equipments and erecting scaffolding removing loose old flaked paint, and washing the entire surface with a pressure of water and there after applying Wall Mate 2coat system which will be as follows:

**1<sup>st</sup>** Erecting Scaffolding

**2<sup>nd</sup>**, removing loose plaster and redoing the same as approved by consultant

**3<sup>rd</sup>**, opening of crack and refilling the same with foam grade

**4<sup>th</sup>** covering all window sills and sliding window joints with foam grade

**5<sup>th</sup>** applying 2coats of wall mate in each perpendicular direction [Primer is not required except new concrete surface]

##### **Detail Specification with material coverage.**

##### **PART 1- PRODUCTS**

##### **DESCRIPTION**

These specifications are for our product WALL MATE, which is used for waterproofing with reflective advantages for bare concrete surface, Plastered Surface, GI sheets, AC Sheets etc. On base concrete surface smooth finish plaster is to be provided and on this surface over that WALL MATE can be applied.

##### **1.1 MATERIALS**

1. It is Advance Acrylic Elastomeric Two Coat system consisting of 1<sup>st</sup> base coat, 2<sup>nd</sup> top coat. Primer coat is not required, before application of this system
2. Bio-degradable cleaner, water-reducible non-phosphate cleaner is used for cleaning concrete substrates prior to coating. [If it's only a concrete finish]
3. Construction Grade Caulk: Single package polyurethane sealant, is used for sealing cracks and seams, and at vertical/horizontal interfaces.

##### **1.2 PERFORMANCEREQUIREMENTS-FLUID - APPLIED ELASTOMERIC COATING**

Fluid-applied, advance 100% acrylic elastomeric topcoat in the specified finish color shall be internally plasticized to provide a permanently flexible, weather-resistant topcoat. It shall possess a Class "A" fire rating, as tested and certified by UL 790 and FACTORY MUTUAL. Coating shall meet or exceed all properties specified in ASTM D6083, Table1, "Liquid Property Requirements", and table 2, "Film Physical Property Requirements for Acrylic Roof Coatings". The same are tabulated below and shall be verified by a certified independent testing agency.

## 1.2.1 PROPERTIES

### TYPICAL PROPERTIES

**TABLE I**

Property	Value	Method
Solids by Weight	68% (±2)	ASTM D2369
Solids by volume	55% (±2)	ASTM D2697
Tensile Strength	150 psi (1.0 kPa) (±25) @ 75°F 400 psi (2.8 kPa) (±25) @ 0°F	ASTM D412
Elongation	300 (±50) @ 75°F 400 (±50) @ 0°F	ASTM D412
Hardness	60-70 Shore A	ASTM D2240
Permeance	7.7 perms at 15 mils (381 microns)	ASTM E96
Dry Time @ 75°F. 50 % R.H	1 1/2 hrs @ 20 wet mils (508 microns)	ASTM D1640
Low and High Service Temperature Limits	-30°F to 200°F (-34°C to 93°C)	

### PERFORMANCE PROPERTIES

**TABLE II**

Property	Test Procedure	Value
<b>Accelerated Weathering– Ultraviolet (U.V.) Resistance</b>	Atlas Carbon Arc Weather- Ohmmeter Type EH - Continuous UV and water spray cycling at elevated temperature. ASTM D822	<b>After 2,000 hours of continuous exposure WALLMATE showed no deleterious effects, no surface checking, cracking or elimination.</b>
<b>Resistance to Wind Driven Rain</b>	Pressurized test chamber producing 5" (12.7 cm) of water pressure, equivalent to 100 mph wind pressure (161 km/hr). Federal Spec. TTC-555B	<b>During 40 hours of continuous testing, no apparent moisture penetrated the WALLMATE sample</b>
<b>Resistance to Salt Spray</b>	Harshaw Salt Spray Cabinet (5% sodium chloride fog solution). ASTM B117	<b>After 500 hours of continuous exposure WALLMATE showed no deleterious effects, no surface checking, cracking or delamination.</b>
<b>Resistance to Mildew</b>	Five different fungus cultures grown on potato dextrose agar in an 86°F (30°C) Incubator. ASTM G21	<b>After 14 days, all WALLMATE samples showed absolutely no fungus growth</b>
<b>Low Temperature Flexibility</b>	Federal Test Method No. 141a-6221, utilizing Gardener Mandrel set at cryogenic temperatures.	<b>WALLMATE has the ability to withstand multiple 180° bends over a 1/8" mandrel at -30°F (-34°C).</b>
<b>Elongation After Aging</b>	Atlas Carbon Arc Weather- Ohmmeter Type EH (ASTM D822) and Instron Universal Testing Instrument. ASTM D412	<b>After 2,000 hours exposure in the Weather-Ohmmeter, WALLMATE retained 95% of its elastomeric properties.</b>
<b>Low/High Temperature Stability</b>	Aged films tested in accordance with ASTM D822 in thermostatically controlled heat chamber and freezer.	<b>Films retained their ability to be flexed 180° without cracking at temperatures from -30°F to 200°F (- 34°C to 94°C) with no age hardening or slump.</b>

### **1.3 SUBSTITUTIONS**

Acrylic coatings extended with styrene, vinyl or other ingredients are not allowed. Materials such as cementitious coatings, ceramic-filled coatings, asphalt modified materials, moisture-cured urethanes. Kraton-based rubbers, Hypalons and butyls are not considered acceptable for materials specified herein

## **APPLICATION PROCEDURE**

### **2.0 SURFACE INSPECTION**

- A. Surface shall be clean, dry, and structurally sound, stable and well secured.
- B. The wall surface shall be free of excessive water and dampness within the wall.
- C. Inspect surface of flashing detail adjacent to protrusions, penetrations, wall mounted equipment, curbs, walls, windows sills, and joints parapets, drains and roof edge to ensure that details are acceptable and will maintain a weather –tight installation after being properly coated.

### **2.1 SURFACE PREPARATION**

- A. All surface shall be clean and dry, and free of any dirt, dust, gravel, oil, Surface chemical or other contaminants that may interfere with optimum adhesion
- B. Any unsound areas in the wall, including deterioration, pitted or spalled concrete, excessive moisture content, etc shall be repaired or replaced.
- C. All concrete, plastered surfaces, whether new or existing, shall be cleaned using **AWC Cleaning Concentrate** at the rate of 1 part Liquid to 10 parts water. Apply the dilute mixture under low pressure spray at the rate of 600 sft per 20Kg Bucket. After allowing to set for 15 to 20 minutes, rinse thoroughly with fresh water under high pressure (minimum 2.00 psi/13.790 kPa) to remove the solution from the wall. Heavy deposits of dirt and contamination may require agitation with a stiff-bristle broom or similar mechanical scrubber. Allow the wall to dry thoroughly.

### **2.2 ELASTOMERIC COATING APPLICATION**

- A. All Wall preparation materials shall be allowed to dry thoroughly prior to application of the acrylic coating
- B. Immediate prior to application of the acrylic coating system, all dust, dirt and other contaminants shall be blown off the wall surfaces to be coated, using high pressure compressed air or broom
- C. Wall surface shall be applied with 1<sup>st</sup> coat of coating with brush, roller or airless spray machine In color is applied with 5 wet mils (110 - 130 microns) with using 20Kg bucket we will be covering 600 Sft of area to and it shall be kept for curing for at-least 8 hours.
- D. After allowing the 1<sup>st</sup> coat to dry, apply top / finishing coat (specified color) at a rate of 20Kg of material per 600 sqft. Use a medium-nap roller, brush or airless spray to apply elastomeric coating. Application of the top coat shall be in a perpendicular direction to the 1<sup>st</sup> coat.
- E. The total –1<sup>st</sup> coat / 2<sup>nd</sup> topcoat dry film thickness required at any location shall be 200 Microns to 220 microns)

### **3.0 CLEANUP**

1. Maintain work and work areas in a clean, safe condition at all times during coating installation, Remove excess materials, trash and debris from the jobsite daily.
2. At the completion of the project, clean area of any splits and containers, and clean up all wall debris, leaving jobsite in a clean and orderly condition.

### **3.0 Warranty**

Upon completion of the Wall coating system, the coating manufacturer representative, Owner's representative, Architect and Applicator shall make a final inspection to the determine the film thickness of the fluid-applied acrylic system and to verify that the system meets the Manufacturer's requirements for warranty. The Contract shall notify all interested parties in advanced of said inspection.

*Our products are guaranteed to meet established quality control standards. Information contained in our technical data is based on laboratory and field testing, but is subject to change without prior notice. No guarantees of accuracy are given or implied, nor does AWC assume any responsibility for coverage, performance or injuries resulting from storage, handling or use of our products. Liability, if any, is limited to product replacement or, if applicable, to the terms stated within the executed project warranty.*

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