



## WC-190 GUIDE SPECIFICATIONS FOR WATERPROOFING VERTICAL CONCRETE, MASONRY AND STUCCO SURFACES

### PART 1: GENERAL

- 1.01 SCOPE:** To repair and coat existing, or new, vertical concrete, masonry and stucco surfaces.
- 1.02 SYSTEM DESCRIPTION:** This specification includes surface preparation, repair procedures, priming and sealing and application of **MEGAFLEX™** High Performance Elastomeric Coatings.
- 1.03 REFERENCES:**  
ASTM D 6083 Standard Specification for Liquid Applied Acrylic Coating
- 1.04 SUBMITTALS:**
- A. Product Information:** Submit technical data and application instruction for each type of material listed in PART 2.
  - B. Samples:** Submit sample of each product as required.
- 1.05 QUALITY ASSURANCE:**
- A. Codes and Regulations:** Apply material in accordance with all applicable building codes and regulations and industry safety regulations.
  - B. Installer Qualifications:** Installer shall have a minimum of two years experience, necessary equipment for application and be a MEGA Approved Contractor.
- 1.06 DELIVERY AND STORAGE:** Deliver clearly labeled materials to the job in the manufacturer's original unopened container. Store material in a dry location between the temperatures of 50<sup>0</sup> F and 80<sup>0</sup> F.
- 1.07 PROJECT/SITE CONDITIONS:**
- A. General:** Do not commence installation if rain is expected within twenty-four (24) hours of application. Stir products before use. Do not thin.
  - B. Curing Properties:** **MEGAFLEX™** is a rapidly polymerized UV (ultra-violet) radiant curing material. Ensure a minimum of two to four hours of daylight exist after completion of daily application to allow for proper curing. Coating work should best commence in the morning hours to allow for proper curing. However, Do not apply primers or coatings over dew or moisture as blisters will result.
  - C. Cold Weather:** Do not apply if ambient temperature is below, or will fall below, 50<sup>0</sup> F before curing is complete.
  - D. Hot Weather:** Do not apply if substrate or ambient temperature exceeds 110<sup>0</sup> F or premature drying or skinning over will occur.
  - E. Relative Humidity:** Do not apply if R.H. is 90% or higher.

### PART 2: PRODUCTS

- 2.00** All materials used in repairing, priming, sealing and the finished coating system must be furnished by MEGA Industries Corporation, Phoenix, AZ.

## 2.01 MATERIALS:

- A. **MEGA WC-190 Elastomeric Wall Coating** is a high performance, high solids, water-based, 100% acrylic polymer resin product for use on exterior concrete block, stucco, masonry, poured-in place and pre-cast concrete, EFIS, brick, wood and metal . For physical properties refer to the Mega Product Data.
- B. **MEGAWALLFLASH™ M-500 Flashing Cement** is a white, brush grade elastomeric product for repairing cracks in concrete, masonry and stucco surfaces. For physical properties refer to the Mega Product Data.
- C. **.MEGA WC-900 Wall Primer** is a white low viscosity pigmented material which seals porous and dries clear. For physical properties refer to the Mega Product Data.

## PART 3: EXECUTION

### 3.01 EQUIPMENT:

#### A. Spray Grade Products:

	<b>WC-190</b>	<b>WC-900</b>
Airless Spray Pump:	2,000 - 3,000 psi	1,800 – 2,400 psi
Gallons per Minute:	1 to 2 GPM	1 to 2 GPM
Tip Size (Reversible/Self Cleaning):	.027" - .039"	.015" - .017"
Tip Fan Angle:	Wide angle	Wide angle
Filter:	-	60 mesh
Hose:	3/8" – 1/2" I.D.	3/8" – 1/2" I.D.

**NOTE:** A 3/4" nap roller may also be used. Apply from the bottom up to avoid runs. If small areas are brush applied, avoid brush marks and streaking which promote dirt pick-up.

#### B. Other Products/Materials:

1. **MEGAWALLFLASH™ M-500 Flashing Cement** – Trowel, Putty knife or stiff brush.
2. 3,000 psi power pressure washer.
3. Water source.

### 3.02: PRE-APPLICATION INSPECTION

Prior to the installation, inspect the surface areas to be coated with **MegaFLEX™**, including:

- A. **Surfaces:** Locate and mark all cracked or damaged surfaces requiring repair.
- B. **Foreign Materials:** **MEGAFLEX™** will not adhere to certain materials, such as; silicone, glazed tile and ceramic coatings. For questionable surfaces, install a test patch of coating, or primer and coating, to determine acceptable adhesion.

### 3.03: SURFACE PREPARATION

- A. **Pressure Wash:** All surfaces to be coated and repaired must be power washed with a minimum working pressure of 3,000 psi is required. Use a mild detergent and water mixture to remove all dust, dirt, grease, asphalt, mildew, chalk, laitance, efflorescence, loose existing coatings, etc. which will inhibit coating adhesion. Use a stiff bristle brush on stubborn surfaces.

Chlorine bleach should be added to the mixture to eliminate excessive mildew and algae. Rinse surface thoroughly with clean water and allow to dry before proceeding.

- B. Surface Repairs:** Remove all loose material from cracks and voids. Fill all cracks, voids, cracked mortar joints and joints of different materials with **MEGAWALLFLASH™ M-500 Flashing Cement** or compatible urethane material. Fill cracks until even with the existing surface. Smooth at edges. For cracks 1/16" or wider, route a groove 1/2" wider than crack, install a backer-rod into the crack and prime groove walls with **MEGA WC-900 Wall Primer** and allow to dry 4 to 6 hours. Fill groove with compatible urethane flush to surface. Repeated applications may be required as these material shrink as they dry. Allow to dry for 16 to 24 hours and inspect for additional cracks, shrinkage, etc. Allow to dry for 16 to 24 hours before coating application.
- C. New:** New masonry must cure for a minimum 30 days prior to application of primer and/or coating. Apply **MEGA WC-900 Wall Primer**, or equal<sup>1</sup>, evenly to all surfaces to be coated at a rate of .25 gallons per 100 SF (1 gallon per 400 SF). Additional coats of primer may be required at the above rate due to the surface porosity and texture. Allow to dry overnight before coating.
- D. Previously Coated:** Apply **MEGA WC-900 Wall Primer**, or equal<sup>2</sup>, prior to coating application. Apply evenly at a rate of .25 gallons per 100 SF (1 gallon per 400 SF). Additional coats of primer may be required at the above rate due to the surface porosity and texture. Allow to dry overnight before coating.
- E. Adhesion Test:** An adhesion test is required for all previously coated surfaces. After thoroughly cleaning surface as prescribed above, conduct an adhesion test to determine acceptable adhesion of the new coating to the existing painted surface. Apply a 2 square foot area of new primer and coating to the existing painted surface. Allow to dry thoroughly. Cut a "X" pattern in the test area then firmly apply masking tape to the new coating and pull the tape off. If the new coating remains in place, acceptable adhesion is assumed. If the new coating delaminates, or partially delaminates, the MEGA Wall Coating system is not acceptable for use.

<sup>1</sup> Sherwin-Williams LOXON® A24W300 Primer.

<sup>2</sup> Sherwin-Williams LOXON® A24-100 Conditioner.

### 3.04: APPLICATION

- A. Base Coat:** Apply **MEGA WC-190 Elastomeric Wall Coating** at a rate of 1.0 gallon per 100 SF (16 wet mils) over bare surfaces or .75 gallons per 100 SF (12 wet mils) over existing coated surfaces. Check with a wet mil gage to ensure correct application rate. Allow the Base Coat to dry and inspect surface for flaws and insufficient coating thickness, etc. Re-coat these areas. Allow the Base Coat to thoroughly dry for 16 to 24 hours prior to application of the Finish Coat. If spray applied, back-roll to eliminate pinholes.
- B. Finish Coat:** Inspect the entire wall surface prior to applying the Finish Coat. Remove any debris from the Base Coat which will inhibit adhesion of the Finish Coat. Apply **MEGA WC-190 Elastomeric Wall Coating** as the Finish Coat at a rate of 1.0 gallon per 100 SF (16 wet mils) at a 90° angle to the Base Coat over bare surfaces or .75 gallons per 100 SF (12 wet mils) over existing coated surfaces. Check with a wet mil gage to ensure correct application rate. If roller applied, apply all Finish Coat in one direction to ensure a uniform stipple pattern. Allow the Finish Coat to dry for 24 hours and inspect surface for flaws, pinholes and insufficient coating thickness, etc. Re-coat these areas. Additional coats may be required on heavily textured surfaces.
- C. Colors:** **MEGA WC-190 Elastomeric Wall Coating** is available in made-to-order colors or may be tinted to a light color using a universal colorant not to exceed 4 liquid ounces per gallon.

- D. **Limited Warranty:** MEGA provides a five (5) year material warranty covering the replacement of the material only should the material be found to have manufacturing defects or, if the material delaminates, when applied per above specification by a MEGA Approved Contractor.
- E. **Clean Up:** Clean all brushes and spray equipment with soap and water solution while still wet. Clean all equipment at the end of each day and when changing products.

Energy savings from installation of an ENERGY STAR® Roof Product are climate specific and vary by building. The greatest savings will occur in buildings located in hot and sunny climates that have a high roof surface to building volume ratio, and lower levels of attic and/or roof insulation.

**MEGA Industries Corporation is an ENERGY STAR® Roof Products  
Partner and a Charter Member of the COOL ROOF RATING COUNCIL.**



**MEGA Industries Corporation**  
**Phone: (800) 772-7205**

**PO Box 9096**  
**FAX: (602) 381-9907**

**Phoenix, AZ 85068**  
**[www.coolroof.com](http://www.coolroof.com)**