



PRODUCT DATA

Colors: M-200 is light gray in color

Limitations: Do not apply if rain is expected within twenty-four (24) hours of application. Ensure a minimum of four (4) hours of daylight remains after application to allow for proper UV curing. Do not apply if ambient air or surface temperature will fall below 50⁰ F, before curing is complete, or exceed 120⁰ F. All roof surfaces must have a positive slope. All roof surfaces and assemblies must be completely dry as *MEGAFLEX™* forms a vapor retardant barrier. Trapped moisture may cause the coating to blister and delaminate. **KEEP CONTAINER FROM FREEZING!**

1. PRODUCT NAME

***MEGAFLEX™* M-200 Gray Base**
Base Coat for Aged (1 yr. & Older) Asphaltic Roof Systems and Metal Roof Systems.

2. MANUFACTURER

MEGA Industries Corporation
P.O. Box 9096
Phoenix, AZ 85068
(800) 772-7205 (Ph)
(602) 381-9907 (Fax)

3. DESCRIPTION

***MEGAFLEX™* M-200 Gray Base** is a high performance proprietary water-based, 100% acrylic co-polymer resin formulation to ensure the highest degree of adhesion between asphalt roofing products, metal systems and MEGA M-100 finish coat. M-200 is Underwriters Laboratories Class A Listed.

Used as the base coat for aged smooth or granulated surfaced asphalt built-up roofing, modified bitumen membranes, and metal roof systems when applied per specifications. When applied in accordance with specifications, produces a tough, monolithic, fungi resistant reflective coating which expands and contracts with the underlying surface.

Available in 5 or 55 gallon containers.

<u>FEATURES</u>	<u>BENEFITS</u>
Elastic	Expands and contracts with the roof surface. Stays flexible.
Excellent Adhesion	Adheres to asphalt, modified bitumen, concrete and masonry surfaces. Enhances the adhesion of the surface coating.
Thin Viscosity	Evenly distributes the polymer resins to the surface; fills minor surface irregularities and reduces the potential for pinholes.

4. TECHNICAL INFORMATION

Physical Properties M-200 Gray Base:

<u>M-200 PROPERTIES</u>	<u>TEST METHOD</u>	<u>TYPICAL PROPERTY</u>
Viscosity @ 73 ⁰ F, KU	D 562	105-115
Solids by Volume, %	D 2697	> 50
Solids by Weight, %	D 1644	> 60
Elongation @ 73 ⁰ F, %	D 2370	> 200
Tensile @ 73 ⁰ F, psi	D 2370	> 300
Accelerated Weathering	D 4798	Pass
Water Swelling, %	D 471	< 10%
Permeance, perms	D 1653	< 10
VOC, grams/liter	-	< 100
Flash Point, ⁰ F	-	None
Dry Time: To Touch, Hours	-	1 to 2
To Recoat, Hours	-	16 to 24

5. INSTALLATION

General Surface Preparation: Surfaces to receive **M-200** must be clean and free of bitumen exudates, dust, dirt, talc, sand, oil, grease, algae, fungi, mildew, loose granules, loose coating or any foreign matter which will prevent or inhibit proper coating adhesion. To clean, pressure wash all surfaces to be coated and detailed with a TSP and water mixture at a minimum of 3,000 psi. Add chlorine bleach to eliminate mildew and algae. Additional pressure washing and/or the use of a stiff bristle brush may be required to clean stubborn dirty areas. Rinse thoroughly with clean water and allow to dry. Pressure wash up roof slope and rinse down roof slope to drains.

Asphaltic Based Roofing Systems

Base Coat for "Aged" Surface- For smooth surfaced asphalt built-up roofing and modified bitumen membranes use ***MEGAFLEX™* M-200** at the rate of .75 gallons per 100 SF . Apply at the rate of 1 gallon per 100 SF on granulated surfaces. Allow the base coat to dry for 16 to 24 hours prior to applying the finish coat.

Flashing Details: For asphalt built-up and modified bitumen roof surfaces, flash all roof penetrations using **MEGAFLASH™ M-500 Seam Sealer**. Apply **M-500** at an even thickness of 1/16". Immediately embed and brush in 6" or 12" wide **MEGAFLEX™ M-600 Polyester Reinforcing Fabric** ensuring the fabric is not stretched and is wrinkle free. Cut out all fish-mouths and wrinkles to lay flat. Apply a second 1/16" coat of M-500 Seam Sealer. Perform same procedure on all edge and vertical flashing details as needed.

Finish Coat: Apply **MEGAFLEX™ M-100 Cool Roof White Roof Coating** evenly over base coat at the rate of 1.25 gallons per 100 SF at a 90° angle to the Base Coat application direction. Allow the finish coat to dry. Inspect for flaws, voids and insufficient coating thickness, etc. Recoat these areas as needed.

Metal Roofing Systems

Further Surface Preparation: On metal roofs, remove all rust down to the bare metal with a power wire brush prior to pressure washing. Damaged or severely rusted panels should be replaced. Etch new panels with an appropriate solution to remove factory oils and ensure proper coating adhesion.

Prime Coat: For metal roofs, apply **MEGAFLEX™ M-800 Metal Primer** at a minimum rate of .50 gallons per 100 SF (100 sf). Ensure rust is totally encapsulated. Allow to dry for a minimum 4 hours. **NOTE:** If metal panels have a Kynar or other unknown finish, do not apply M-800 or **MEGAFLEX™** coatings. Contact MEGA for application instructions and surface adhesion test instructions.

Flashing Details: Metal roofs require all exposed fasteners to be fully encapsulated in **M-500**. For all horizontal seams, penetrations, curbs, rakes and skylights use a two coat application of **M-500** with 6" wide **M-600** embedded between the coats. For vertical seam treatment, brush **M-500** back against the seam until no longer visible. Allow **M-500** Seam Sealer to dry for 16 to 24 hours before application of the coating.

Base Coat: For metal roof systems apply **MEGAFLEX™ M-200 Gray Base Coat** evenly at the rate of 1.0 gallon per 100 SF. On metal roofs, apply M-200 at a 90° angle (perpendicular) to the vertical seams. Allow the base coat to dry and inspect for flaws, voids and insufficient coating thickness, etc. Repair and recoat these areas as needed. Allow the base coat to dry for 16 to 24 hours prior to applying the finish coat.

Finish Coat: Apply **MEGAFLEX™ M-100 Cool Roof White Roof Coating** evenly over base coat at the rate of 1.25 gallons per 100 SF at a 90° angle to the Base Coat application direction. Allow the finish coat to dry. Inspect for flaws, voids and insufficient coating thickness, etc. Recoat these areas as needed.

6. AVAILABILITY AND COST

MEGAFLEX™ products are sold through MEGA Approved Roofing Applicators and Distributors. Contact Mega Industries for further information.

7. WARRANTY

MEGA provides a five (5) year material warranty covering the replacement of the material should the material be found to have manufacturing defects. For warranty information contact MEGA Industries Corporation.

8. MAINTENANCE and SOLAR REFLECTIVITY

All roofs are a maintenance item and should be inspected twice a year, in the spring and fall. Excess dirt, dust or other foreign material may build up on the roof surface and, along with normal aging and weathering, reduce solar reflectance. The coating surface may be cleaned with a water and mild detergent solution to maximize the Solar Reflectance and cooling cost savings.

