

Product Evaluation Coordinator  
Colorado Department of Transportation  
4670 North Holly Street, Unit A  
Denver, Colorado 80216

Material Code

705.08.01.00

CDOT Use Only

Material Code description full name

Prefab, Reinforced Membrane and Primer CDOT Use Only

## PART 1

Product name: <b>M-400 Bridge Deck Waterproofing Membrane</b>	Product category: <b>Waterproofing/Elastomeric Membrane Non Asphaltic</b>
Product Representative (name & address): Attn: <b>Tom Herriage</b>  <b>Protecto Wrap Company</b> <b>1955 South Cherokee</b> <b>Denver, Colorado 80223</b> Phone: (303) 249-3619 E-mail: <a href="mailto:tom@protectowrap.com">tom@protectowrap.com</a>	Manufacturer (name & address): Attn: <b>Jack Hopkins</b>  <b>Protecto Wrap Company</b> <b>1955 South Cherokee</b> <b>Denver, Colorado 80223</b> Phone: (303) 777-3001 E-mail: <a href="mailto:info@protectowrap.com">info@protectowrap.com</a>
Web-site address: <a href="http://www.protectowrap.com">www.protectowrap.com</a>	Web-site address: <a href="http://www.protectowrap.com">www.protectowrap.com</a>

**Description of the product:** (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

M-400 waterproofing membranes are cold applied, self-adhering sheet membranes used on bridge deck or parking structures with an asphaltic concrete wearing course. The membranes prevent penetration of water, salts, acids and alkalis into the substrate's structure. M-400 membranes are manufactured with premium bituminous resins modified with synthetic resins. They are reinforced internally to withstand puncture and severe stress. The preformed membrane provides effective waterproofing, high mechanical strength, puncture resistance, and excellent chemical resistance over a wide range of field temperature conditions. M-400A membrane is tacky on both sides to provide good bonding characteristics to the primed surface, to itself on overlap areas and to the asphalt overlay. M-400A(R) membrane is internally reinforced and features a white reflective topping specially designed for bridge deck applications where heavy equipment will be driven on the deck immediately after membrane installation. Available in rolls and installed over Protecto Wrap primer and detailed with Protecto Wrap mastic. Hot asphalt overlay melts the membrane to form a monolithic protection layer.

**Restrictions,** (installation and/or use):

Concrete surfaces shall have a minimum cure time of 7 days and shall be clean and dry; Installation Temperature = 40 degrees & rising. Asphaltic Concrete Mix aggregate = 3/8" or less. Asphaltic application temp = 300F to 315F  
Protecto Wrap Primer and Mastic required

**Use of the product,** (be specific to CDOT highway activities only):

Used on bridge decks to prevent penetration of water, salts, acids and alkalis into the bridge deck substrate. Can be used as a Precast Box Culvert waterproofing membrane as shown in M-603-3 (Note 7).

**Benefits to CDOT,** (how will your product enhance quality, improve safety, save money, be a better value than other manufacturer's products):

M-400 waterproofing membranes will help extend the life and quality of Colorado's bridges and parking structures. Safety of these structures will be improved by protecting them from the affects of water and chemical intrusion which causes early decay. The use of M-400A(R) with its white topping expedites the movement of equipment on the bridge deck immediately after installation. M-400-A(R) features a 60" wide roll which saves time and money by improving installation efficiency over narrower rolls by as much as 56%. M-400 is manufactured in Colorado by a family owned Company that has been employing Coloradans for 72 years.

**Specifications:** (listing those applicable is required)

- ☒ CDOT : 705.08.01.00  
☒ ASTM : D882-A, E-96B, E-154, D-146  
☐ AASHTO :  
☐ FHWA :  
☐ other :

☐ Certificate of Compliance (COC) provided ☐ Certificate of Verification (COV) provided for select categories ONLY

**Product Testing:** (National/independent laboratories or universities with Report Date,) **Certified Test Report** (CTR) provided to validate all claims.

- ☐ NTPEP-AASHTO :  
☐ FHWA :  
☒ other : **Inspection Concepts Inc Report**  
☐ other :  
☐ other :

**State DOT Approvals,** (current documentation required): **CO,BC,MT,NE,NY,WI**

**Expiration Date** **5 Years** **7/01-16-2028**

Sample submitted: ☐ yes ☒ no ☐ n/a Safety Data Sheets (SDS): ☒ yes ☐ no ☐ n/a

Alternate Product Category: Bridge Deck Waterproofing, Pre-Cast Box Culvert Waterproofing

**CDOT Product RESTRICTIONS by CDOT Evaluator:**

Only products that meet the width requirement should be used.

CDOT use Only

**Evaluators Signature:**

**Edward  
Trujillo**

Digitally signed by Edward  
Trujillo  
Date: 2025.03.04 15:52:49  
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