COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No.

5185-24USE ONLY

Product Evaluation Coordinator	Material Code	
Colorado Department of Transportation	705.08.01.00	CDOT Use Only
4670 North Holly Street, Unit A	Material Code description full name	
Denver, Colorado 80216	Prefab, Reinforced Membrane and PrimerOT Use Only	

Product name:		
Materproofing/Elastomenic Membrane Non Asphaltic Product Ripresentative (name & address): Altit. Total Netralge Protecto Wrap Company 1955 South Cherokee Denver, Colorado 80223 Phone: (303) 248-3619	PART 1	
Attr.: Jack Hopkins Protecto Wirap Company 1955 South Cherokee Denver, Colorado 80223 Phone: (303) 248-3619		
1965 South Cherokee Denver, Colorado 80223 Phone: (303) 249-3619		/
Phone: (303) 249-3619		
Web-site address: www.protectowrap.com Web-site address: www.protectowrap.com Description of the product: (include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate). Med Ow alterproteing membranes are cold applied, self-adhering sheet membranes used on bridge deck or parking structures with an asphalitic concrete wearing course. The membranes prevent penetration of water, salts, acids and alkalis into the substrate's structure. Med 00 membranes are manufactured with premium bituminous resists modified with synthetic resists. They are reinforced internally to withstand puncture and severe stress. The performed membrane provides effective weaterproofing, judy membrane is transported as transported provides good bonding characteristics to the primed surface, to itself on overlap areas and to the asphal to vering. Med 2004 membrane is tacky on both sides to provide good bonding characteristics to the primed surface, to itself on overlap areas and to the asphal to vering. Med 2004 membrane is tacky on both sides to provide good bonding characteristics to the primed surface, to itself on overlap areas and to the asphal to vering which are provided good bonding characteristics to the primed surface, to itself on overlap areas and to the asphal to vering which are provided good bonding characteristics to the primed surface, to itself on overlap areas and to the expenditure of the provided provided provided and features a white reflective toping specially designed for bridge deck applications where heavy equipment will be driven on the deck immediately after membrane internal and internal and surface and the provided and prov	· · · · · · · · · · · · · · · · · · ·	Denver, Colorado 80223
Description of the product: (includes specific quantifiable details from sch 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 asphalfic 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 resis modified with synthetic resisn. They are reinforced internally to withstand puncture and severe stress. The performed membrane provides effective weaterprofing, high mechanical strength, puncture reisoration, and excellent chemical resistance over a wide range of filed temperature conditions. M-400A membrane is tracky on both sides to provide good bonding characteristics to the primed surface, to itself on overlap areas and to the asphalt overlap. M-400A membrane is tracky on both sides to provide good bonding characteristics to the primed surface, to itself on overlap areas and to the asphalt overlap ments. In the deck immediately after membrane installation. Available in roils and installed over Protecto Wrap parties. In the asphalt overlap ments the membrane in formal monolithic protection layer. Restrictions, (installation and/or use): Coverate surface shall have a minimum cure time of 7 days and enable cases and dy; installation Temperature + 40 degrees 4 from 4 Aphratic Cases Malagories - 247 or less. Aphratic optication temp + 230° to 163 from 250° to 163 from 250		
M-400 waterproofing membranes are cold applied, self-achering sheet membranes used on bridge deck or parking structures with an apphalic concrete wearing ocurse. The membranes prevent penetration of water, salls, acids and alkals into the substrate's structure. M-400 membrane are manufactured with premium bituminous resins modified with synthetic resins. They are reinforced infernally 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-400 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 praiset. Hot asphalt overlay melts the membrane to form a monolithic protection layer. Restrictions, (installation and/or use): Coveres sufficient stall have a minimum use time of 7 apps and shall be cean and dy, installation Temperature - 10 segress 8 rainy. Available: Concrete Mix aggregate - 30° or less. Asphalic acadesion temp - 300° to 515 or british time. From and Madric register. Lose of the product, (be specific to CDOT highway activities only): Use of the product, (be specific to CDOT highway activities only): Use of the product, (be specific to CDOT) flighway activities only): Use of the product, (be specific to CDOT) flighway activities only): Benefits to CODT, (now will your product enhance quality, improved subjects and parking structures. Safety of these structures will be improved by production to the life and quality of Colorado's bridges and parking structures. Safety of these structures will be improved by production the	Web-site address: www.protectowrap.com	Web-site address: www.protetctowrap.com
Use of the product, (be specific to CDOT highway activities only): Used on bridge decks to prevent penetration of water, salts, acids and alkalasi 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 then 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-AR) 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) CODT: 705.08.01.00 ASTM: D882-A, E-96B, E-154, D-146 AASHTO: FHWA: Other: Other: NTPEP-AASHTO: FHWA: Other: Inspection Concepts Inc Report Other: Inspection Concepts Inc Report Other: State DOT Approvals, (current documentation required): CO, BC, MT, NE, NY, WI Expiration Date: Syears 701-46-2028 Sample submitted: Yes Dot Product RESTRICTIONS by CDOT Evaluator: CODT Product RESTRICTIONS by CDOT Evaluator: CODT Products that meet the width requirement should be used.	M-400 waterproofing membranes are cold applied, self-adhering sheet membranes prevent penetration of water, salts, acids a premium bituminous resins modified with synthetic resins. They are reinforce provides effective waterproofing, high mechanical strength, puncture resistar conditions. M-400A membrane is tacky on both sides to provide good bondin asphalt overlay. M-400A(R) membrane is internally reinforced and features a heavy equipment will be driven on the deck immediately after membrane insignith Protecto Wrap mastic. Hot asphalt overlay melts the membrane to form Restrictions, (installation and/or use):	branes used on bridge deck or parking structures with an asphaltic concrete and alkalis into the substrate's structure. M-400 membranes are manufactured with ad internally to withstand puncture and severe stress. The preformed membrane are, and excellent chemical resistance over a wide range of field temperature and characteristics to the primed surface, to itself on overlap areas and to the a white reflective topping specially designed for bridge deck applications where tallation. Available in rolls and installed over Protecto Wrap primer and detailed a monolithic protection layer.
Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products): M-400 waterproofing membranes will help extend the life and quality of Colorado's bridges and parking structures. Safety here structures will be improved by protecting them from the affects of water and chemical intrusion which causes early decay. The use of M-400k(R) with its white topping expedites the movement of equipment on the bridge deck immediately after installation. M-400-AR() 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) V 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: State DOT Approvals, (current documentation required): CO,BC,MT,NE,NY,WI Expiration Date: State DOT Approvals, (current documentation required): CO,BC,MT,NE,NY,WI Expiration Date: CDOT Product RESTRICTIONS by CDOT Evaluator: CDOT Product RESTRICTIONS by CDOT Evaluator: CDOT Products that meet the width requirement should be used.	Protecto Wrap Primer and Mastic required	
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 infrusion which causes early decay. The use of M-400A(R) within the work which causes early decay. The use of M-400A(R) within the work which causes time and money by improving installation. AdvO-4(R) retaines a 60° wide off 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 701-16-2028 Sample submitted: yes: no: n/a Alternate Product Category: sudge-Deck Waterpoofing, Pre-Cast Box Current Waterpoofing CDOT Product RESTRICTIONS by CDOT Evaluator: Only products that meet the width requirement should be used. DOWN and the product Control of the product of the width requirement should be used. DOWN and the product of the width requirement should be used. DOWN and the product Category: Broad Advanced Signature: Evaluators Signature: Edward Down and the first and money by improving instructures and money by improving instructures.		bstrate. Can be used as a Precast Box Culvert waterproofing membrane as shown in M-603-3 (Note 7).
Z CDOT : 705.08.01.00 ASTM : D882-A, E-96B, E-154, D-146 AASHTO: FHWA : other : Certificate of Compliance (COC) provided	M-400 waterproofing membranes will help extend the life and quality of Colorado's bridges a affects of water and chemical intrusion which causes early decay. The use of M-400A(R) with installation. M-400-A(R) features a 60" wide roll which saves time and money by improving in	nd parking structures. Safety of these structures will be improved by protecting them from the h its white topping expedites the movement of equipment on the bridge deck immediately after
Certificate of Compliance (COC) provided	 ✓ CDOT : 705.08.01.00 ✓ ASTM : D882-A, E-96B, E-154, D-146 ☐ AASHTO : ☐ FHWA : 	
NTPEP-AASHTO: ☐ FHWA : ☐ other : Inspection Concepts Inc Report ☐ other :		e of Verification (COV) provided for select categories ONLY
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. Digitally signed by Edward Digitally signed by Edward CDOT	 NTPEP-AASHTO: FHWA : ✓ other : Inspection Concepts Inc Report other : 	port Date.) Certified Test Report (CTR) provided to validate all claims.
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. Digitally signed by Edward Trujillo	State DOT Approvals, (current documentation required): CO,BC,MT,N	E,NY,WI Expiration Date 5 Years \$\tilde{P}\$ 01-46-2028
CDOT Product RESTRICTIONS by CDOT Evaluator: Only products that meet the width requirement should be used. Edward Digitally signed by Edward Trujillo	Sample submitted: yes no n/a Safety Data S	Sheets (SDS): 🔽 yes 🔲 no 🔲 n/a
Only products that meet the width requirement should be used. CDOTUSE Only Edward Digitally signed by Edward Trujillo	Alternate Product Category: Bridge Deck Waterproofing, Pre-Cast Box Culvert Waterproofing	
	Only products that meet the width requirement should be used.	Edward Digitally signed by Edward Trujillo