P.O. Box 565
Burlington, WI 53105
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Spillway Apron Repair

Project Area = Honey Lake Dam Spillway Apron. Repair cracks and install concrete overlayment. 1,302 square feet

1. All work to be performed in accordance with WDNR, Walworth County and Shoreland Zoning Regulations
2. Materials to be used: Eucoweld 2.0 Latex Bonding Agent and Tammspatch II Repair Mortar and Underlayment (information sheets attached) or equivalent material approved by HLPRD
3. Provide pre-repair and post-repair pictures of work area (to include drawings and plans if appropriate)
4. Contractor must provide proof of workers compensation insurance, certificate of liability insurance with HLPRD named as an additional insured, and current W-9
5. All work to be performed in a workmanlike and timely manner using the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality.
6. Services may be terminated by either party with 15 days written notice in the event of substantial failure by the other party to perform in accordance with the specifications described herein or generally accepted norms and practices

Activity Description (Provide separate costs for materials and labor/equipment)	**Materials**	**Labor / Equipment**
Eucoweld 2.0 Latex Bonding Agent for Concrete Repairs and Toppings		
Tammspatch II Two Component Repair Mortar and Underlayment		
Clean cracks and concrete surfaces in accordance with manufacturer directions		
Perform repairs, applying materials in accordance with manufacturer directions and conditions		
Remove all temporary materials, supplies, equipment and waste, properly dispose of waste and leave work area clean		
Total		

Contractor Name: _____

Contractor Address: _____

Contact Name and Telephone: _____

BONDING AGENTS AND ADHESIVES
Master Format #: 03 05 00

EUCOWELD 2.0

LATEX BONDING AGENT FOR CONCRETE REPAIRS AND TOPPINGS

EUCLID CHEMICAL

PACKAGING

1 gal (3.8 L) jug (6 per case)
Code: L6202 95
5 gal (18.9 L) pail
Code: L6202 05

APPROXIMATE COVERAGE

150 to 250 ft²/gal (3.68 to 6.14 m²/L)

CLEAN UP

Clean tools and equipment with soap and water immediately following use. Clean drips and over-spray with water while still wet. Dried EUCOWELD 2.0 may require mechanical abrasion for removal.

SHELF LIFE

2 year in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- ASTM C1059, Type II
- Canadian MTQ

DESCRIPTION

EUCOWELD 2.0 is a liquid latex bonding agent for cement-based repair mortars and concrete. EUCOWELD 2.0 has a long open time, and repair materials can be placed either after it has dried, or while it is still wet. This bonding agent represents a new generation of easy-to-use latex, which exhibits drastically improved performance and stability in comparison to the typical re-wettable ethylene vinyl acetate (EVA) bonding agents currently available. EUCOWELD 2.0 is a unique, non-EVA based latex that utilizes reactive chemistry for bonding, rather than depending on the moisture content of the repair material.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Excellent bond strengths
- Repair materials can be applied wet-on-wet, or after it has dried
- Easy to use - applied to surface straight from container
- Long open time

PRIMARY APPLICATIONS

- Repairing concrete with cement-based mortars
- Concrete overlays and toppings
- Interior or exterior use
- Repairs that will be frequently wet or submerged after curing

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Value
-	Tack Free Time	2 to 3 hours
ASTM C1583	Direct Tension Bond Strength	24 hours: 340 psi (2.3 MPa) 7 days: 370 psi (2.6 MPa)
ASTM C882	Slant Shear Bond Strength	14 days, dry conditioned: 2,730 psi (18.8 MPa) 14 days, wet conditioned: 2,760 psi (19.0 MPa)

Physical Property	Value
Unit Weight, Specific Gravity	8.4 lbs/gal, 1.01
VOC Content	< 5 g/L
Viscosity	100 cp

DIRECTIONS FOR USE

Surface Preparation: Concrete surface must be clean, dry and structurally sound. The substrate must also be free of all curing compounds, form release agents and any other contaminants, which may prevent the proper adhesion of EUCOWELD 2.0. When using EUCOWELD 2.0 to bond Euclid Chemical cementitious repair mortars, please refer to the technical data sheet for the repair mortar to find the concrete surface profile (CSP) requirements. After surface preparation is complete, rinse thoroughly with potable water. Allow the concrete to dry before applying EUCOWELD 2.0.

Application: Stir EUCOWELD 2.0 thoroughly before use. Do not dilute. For hand application, dampen brushes or rollers before use and shake out excess water. For larger areas or faster applications, use airless spray equipment or an industrial pump-up sprayer with a fan tip nozzle. Hold spray nozzle 12 inches to 18 inches (30 cm to 46 cm) from the surface and apply EUCOWELD 2.0 using a cross coat technique consisting of a horizontal pass followed by a vertical pass. Extremely porous surfaces may require two coats of EUCOWELD 2.0.

EUCOWELD 2.0 may be allowed to dry before placing repair mortars, concrete, or toppings, or the repair materials may be placed in a "wet on wet" fashion, immediately after application of EUCOWELD 2.0. EUCOWELD 2.0 will dry in approximately two to three hours depending on the temperature and humidity. If more than 7 days pass between EUCOWELD 2.0 application and placement of the concrete, topping, or mortar, the surface must be abraded to remove existing product, and EUCOWELD 2.0 must be re-applied. During the product's open time, regardless of length of time, the surface must be protected from dust, dirt, foot traffic, and any other sources of contamination or abrasion prior to application of the concrete, topping, or mortar. Any dust, dirt, or other contaminants will severely affect bond strength of the concrete, topping, or mortar.

PRECAUTIONS/LIMITATIONS

- Do not dilute EUCOWELD 2.0.
- Keep from freezing.
- Do not apply to frozen or frost filled surfaces.
- Surface and ambient temperature during application must be 40 °F (4 °C) and rising.
- Store at temperatures between 40 °F to 90 °F (4 °C to 32 °C).
- In all cases, consult the Safety Data Sheet before use.

HORIZONTAL REPAIR

Master Format #: 03 01 30.71

TAMMSPATCH II

TWO COMPONENT REPAIR MORTAR AND UNDERLAYMENT

EUCLID CHEMICAL

PACKAGING

45 lb (20.4 kg) bag and 1 gal (3.8 L) jug
Code: TR5112845501 (bag and jug)
Code: TR5112745501 (contractor kit)

APPROXIMATE YIELD

45 lb (20.4 kg) unit: 0.42 ft³ (0.011 m³) per unit when mixing Part A powder with Part B liquid.

Extended: 0.55 ft³ (0.016 m³) per unit when extended with 20 lbs (9.1 kg) of pea gravel. See full extending instructions under "Directions for Use".

MINIMUM/MAXIMUM APPLICATION THICKNESS

Neat: Featheredge to 1 inch (2.5 cm)
Extended: 1 to 2.5 inches (2.5 to 6.4 cm)

CLEAN UP

Clean tools and equipment with water before material hardens. Hardened TAMMSPATCH II will require mechanical abrasion for removal.

SHELF LIFE

18 months in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- Canadian Food Inspection Agency, and MTQ

DESCRIPTION

TAMMSPATCH II is a two component, polymer modified cementitious repair mortar and flowable underlayment. When the two components are combined, TAMMSPATCH II becomes a versatile mortar for numerous applications, due to its ability to be mixed to different consistencies. From flowable to firm, TAMMSPATCH II provides an aesthetically pleasing surface in multiple applications.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Apply from featheredge to 1" (2.5 cm) per lift neat, up to 2.5" (6.3 cm) if extended
- Highly durable
- Outstanding bond strength
- High strength
- User friendly

PRIMARY APPLICATIONS

- Resurfacing worn concrete walkways
- Trowelable repair mortar
- Decorative overlays
- Horizontal or vertical repairs
- Pointing mortar joints
- Flowable underlayment

COMMON METHODS

- Trowelable (horizontal applications)

PHYSICAL PROPERTIES

Single component
One 45 lb bag (Part A) mixes with one 1 gal (3.8 L) jug (Part B).

Working Time:	45 minutes
Initial Set:	1.5 to 3 hours
Final Set:	4 to 5 hours

Physical properties based on measurements at 70 °F in laboratory conditions.

The following coverage rates are approximations based on yield of a 45 lb unit mixed at standard consistency.

Application Thickness (inches)	1/16	1/8	1/4	3/8	1/2	3/4	1
Coverage Area per Unit (ft²)	76.8	36.4	19.2	12.8	9.6	6.4	4.8

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C109 2" (50 mm) cubes	Compressive Strength	7 days . . . . . 3,000 psi (20.7 MPa) 28 days . . . . . 5,000 psi (34.5 MPa)
ASTM C1583	Direct Tensile Strength	7 days . . . . . 525 psi (3.6 MPa) 28 days . . . . . 650 psi (4.5 MPa)
ASTM C348	Flexural Strength	7 days . . . . . 600 psi (4.1 MPa) 28 days . . . . . 900 psi (6.2 MPa)
ASTM C882	Bond Strength	7 days . . . . . 950 psi (6.6 MPa) 28 days . . . . . 1,450 psi (10.0 MPa)
ASTM C157*	Shrinkage	28 days . . . . . .- 0.023%
ASTM C666	Freeze Thaw Durability	300 cycles 91.0%

*3" x 3" x 11" specimens were removed from molds @ 24 hours

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile of at least CSP 4 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming & Bonding (Horizontal Toppings): For the best adhesion to concrete, use EUCOFLOOR EPOXY PRIMER seeded with sand as the bonding coat. Refer to the EUCOFLOOR EPOXY PRIMER technical data sheet for full instructions. Alternatively, application of EUCOWELD 2.0 to a dry substrate or a scrub coat of TAMMSPATCH II to the saturated surface dry (SSD) concrete surface may be used for bonding. The topping material must be placed on the scrub coat before the scrub coat dries out.

Priming & Bonding (Saw Cut & Chipped Out Repairs): Thoroughly clean any exposed reinforcing steel, and apply DURALPREP A.C. to the concrete and the reinforcing steel within the repair area. Refer to the DURALPREP A.C. technical data sheet for full instructions. Alternatively, application of EUCOWELD 2.0 or a scrub coat of TAMMSPATCH II to the saturated surface dry (SSD) concrete surface may be used for bonding. The repair material must be placed on the scrub coat before the scrub coat dries out.

Priming & Bonding (Vertical Skim Coats/Toppings): Apply EUCOWELD 2.0 or a scrub coat of TAMMSPATCH II to the saturated surface dry (SSD) concrete surface. The repair material must be placed on the scrub coat before the scrub coat dries out.

Mixing: One 45 lb (22.7 kg) unit requires one unit of TAMMSPATCH II mixing liquid. All materials should be in the proper temperature range of 50 to 90 °F (10 to 32 °C). Single 45 lb (22.7 kg) units may be mixed with a drill and "jiffy" mixer. Add 75% of the mixing liquid to a clean mixing vessel, then gradually add the dry product. Add up to the remaining 25% of mixing liquid to obtain desired consistency. Do not exceed maximum water or add any additional additives. Do not mix longer than 3 minutes. Do not retemper.

Extending Instructions (Optional): When extended, TAMMSPATCH II may be applied in lifts of up to 2.5" (6.3 cm). One 45 lb (22.7 kg) unit may be extended by adding 20 lb (9.1 kg) of clean, SSD, 3/8" (9.5 mm) rounded pea gravel (#8, ASTM C33) to the mix. The pea gravel must be dense and non-absorptive per ASTM C127 and non-reactive (ASR) per ASTM C227, C289 and C1260.

Application: Ambient and surface temperatures should be in the range of 40 to 90 °F (4 to 32 °C). Apply with a trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. When using as a wearing surface, mix to a stiffer consistency (use less than full container of mixing liquid) and install to a minimum thickness of 3/8" (0.95 cm). Do not featheredge when using as a wearing surface. If placing thicker than 1" (2.5 cm), material should be extended or placed in multiple lifts. If multiple lifts are to be applied, score the previous lift after placing to provide a suitable surface for mechanically bonding subsequent lifts.

Finishing: A broom, float or steel trowel finish may be applied to the surface. Avoid excessive troweling, as this will weaken the surface. Do not add water to the surface during the finishing operation. When placing under hot and windy conditions, the use of EUCOBAR evaporation retarder is recommended to prevent the loss of surface moisture. Always re-establish floor and slab joints when using this product as a finished surface.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the repair. For best results cure with wet burlap, plastic, or a water-based curing compound such as DIAMOND CLEAR VOX or SUPER DIAMOND CLEAR VOX. Do not use a solvent based curing compound on this product.

PRECAUTIONS/LIMITATIONS

- Store in a dry place.
- Do not allow liquid (Part B) component to freeze.
- Minimum application temperature is 40 °F (4 °C).
- The repair area should be free of frost prior to application.
- Protect from freezing.
- Do not use DURALPREP A.C. as a bonding agent for toppings and overlays done with TAMMSPATCH II.
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- Prior to coating TAMMSPATCH II with an epoxy or other non-breathable coating, verify that all moisture is out of the product prior to application.
- In all cases, consult the Safety Data Sheet before use.

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Subject: Overflow apron, honey Lake dam
Date: Tue, Dec 20, 2022 7:46 am
Attachments: