

PONDS & WATER FEATURES (AG) Waterproofing



Waterproofing PONDS & WATER FEATURES (AG)

Overview

Multicoat PONDS & WATER FEATURES (AG) System offers a completely waterproof solution to projects that are subject to high movement, water loss, and/or are located above the soil level. This system should be chosen cautiously over our universal SHIELD KOTE system in areas that are on grade or below grade to prevent issues stemming from negative side hydrostatic pressure. This system comprises of an air and water tight mebrane MULASTICOAT which performs at its peak when holding back pressure from its positive side. As its strongest characteristic is high flexibility, the coating covering MULASTICOAT to finish/protect it is POND KOTE which give a smooth, plaster like finish that is both durable, and risilient to water, freeze thaw, and other harmful deteriorants.

Surface Preparation

Substrate must be structurally sound and free from grease, oil, dirt, dust, sealers, water repellents and other foreign materials which may interfere with proper bonding. Shot Blasting, sand blasting or water blasting may be necessary over some surfaces to achieve proper bonding. On concrete block walls, all head and bed joints must be free of holes and finished flush with block substrate. For new poured in place walls, a water-based form release should be used. If an oil base form release must be used the wall must be scrubbed with tri sodium phosphate (TSP), power washed and rinsed.

Substrate should be constructed and designed with all applicable building codes. Visit www.multicoat.com for detailed system drawings. **Multicoat's Vapor Shield should be applied as per instructions sheets.** Concrete substrate: Repair cracks with Multicoat's Speed Bond Crack Repair material. (See Instruction Sheet) All holes, or voids, need to be filled with Multicoat's Speed Mix Hydraulic Cement. (See instruction Sheet)

Application

Step 1: MULTICOAT SCRATCH KOTE 2000 is furnished in 65 lb. bags and field mixed with potable (clean) water in the approximate amount of 1¾-2 gallons per bag, preferably with a special MULTICOAT Mixing Paddle. (More water may be needed depending upon ambient temperture). Mix vigorously to disperse all lumps and to thoroughly wet all particles. Suggest 1-1½ minutes after all dry material added. Use margin trowel to clear vessel walls. For best results let Scratch Kote stand in bucket for 3-5 minutes then add a small amount of water to rebreak material. This will give the material additional pot life, but you may only rebreak the material once. Check for consistency by applying to a prepared vertical pool wall with hopper gun, pressure sprayer or ¾"-1¼" nap roller. Applied material should peak not slump. If too thick small clumps will come away with roller. Add small amount of water, remix and retest. If material slumps add solids, remix and retest. Dampen pool substrate with water before application. Apply with ¾"-1¼" nap roller or spray to entire prepared surface. *ALLOW TO CURE FOR A MINIMUM OF 24 HOURS BEFORE APPLYING POOL PLASTER – LONGER IN COOL WEATHER OR INDOOR APPLICATIONS – 72 HOURS.*

Step 2: Flash all lights, drains, coves, penetrations, and other irregularities with MULASTICOAT. Embed stitch bond polyester fabric into wet MULASTICOAT. Then apply additional MULASTICOAT to saturate fabric and allow to dry.

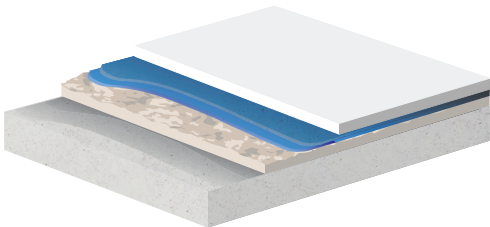
Step 3: Apply MULASTICOAT over entire area in two coats with brush roller, airless sprayer or hopper gun. Allow first coat to dry to touch, usually 1-2 hours depending on ambient air temperature. Apply second coat in a criss-cross pattern to first coat. Immediately broadcast sand into the 2nd coat of MULASTICOAT while it is still wet. After product has dried completely, minimum 24 hours or longer in colder weather, but prior to any further coats, brush off loose sand from substrate.

Note: Mix and apply SCRATCH KOTE 2000 before thinset if tile, brick, or stone finish is desired.

Step 4: Use a 1/2" drill and Multicoat CAGE MIXER to mix material. Mix 1-3/4 to 2 gallon of clean potable water to one 65-lb. bag of POND KOTE until well blended and lump free. Application on walls can be by spray and trowel, floor can be by broom or squeegee. Apply at coverage rates listed below. Dampen substrate with water before application. Allow material to dry 7 to 10 days prior to filling with water. After filling, run circulation pumps/filters followed by a light brushing to remove any surface containments prior to adding fish. Longer dry time will be required for interior applications.

Do not bridge expansion or control joints with the POND KOTE. All expansion or control joints must be cut and cleaned out and filled with approved caulking material.

STEP	MATERIAL	PURPOSE	COVERAGE
1	Vapor Shield	Vapor Barrier	175 SqFt/Gal
2	Scratch Kote/Krete Kote	Primer (Bonding) Coat	175 SqFt/Bag
3	Pond Kote	Pond Finish	1/16" thick: 120 SqFt/Bag 1/8" thick: 60 SqFt/Bag 1/4" thick: 30 SqFt/Bag



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Coverage

- **MULASTICOAT:** 80 to 100 sq. ft. per gallon
- **Stitch Bond Polyester Fabric:** 12" x 324' rolls
- **Vapor Shield @ 175 SF/Gal**
- **SCRATCH KOTE 2000:** 175 sq. ft. per bag
- **POND KOTE:** 1/16" 120 sq. ft. per bag.
1/8" 60 sq. ft. per bag
1/4" 30 sq. ft. per bag

Substrate weather and workmanship will cause coverage rates to vary.

Limitations

- **DO NOT** apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature is below 40°F or above 100°F.
- **DO NOT** apply if precipitation is expected within a twenty four (24) hour period

Packaging And Storage

- **MULASTICOAT:** 1-gallon cans, 5-gallon pails, 55-gallon drums, 275-gallon totes.
- **SCRATCH KOTE 2000:** 65 lb. bags
- **Stitch Bond Polyester Fabric:** 12" x 324' rolls
- **VAPOR SHIELD:** 1-gallon and 5-gallon
- **POND KOTE:** 65lb. bags.
- Store in a dry environment 40 to 90 Deg F.
- Store away from direct contact with ground or concrete.
- Protect from weather and other damage.
- Shelf life is approximately 18 months on unopened bags.

Damage Limitation

Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

Exclusive Remedy

Seller's sole obligation, and buyer's exclusive remedy shall be to replace material if found to be defective.

Warranty Disclaimer

There are no warranties which extend beyond the description of the fact hereof. Seller expressly disclaims all other warranties regarding the use of its products, whether expressed or implied, including the implied warranties of merchantability and for fitness of a particular purpose. Since use of the product is beyond the Seller's control, the Buyer assumes all risk of use.

Warranty

Materials are guaranteed with respect to uniformity and quality within the manufacturer's specifications.

Laboratory Test Data

MULASTICOAT

TEST

- 1 TENSIL STRENGTH
- 2 ELONGATION
- 3 TENSIL BOND ADHESION, PSI
- 4 STATIC HYDROSTATIC PRESSURE
- 5 HYDROSTATIC HEAD
- 6 LOW TEMPERATURE FLEXIBILITY
MANDREL BEND

METHOD

ASTM D2370
ASTM 2370
ASTM C297
ASTM C 1306
12" WATER/FILM@40MIL

ASTM D522

RESULTS

PSI 203
1148%
162 COHESIVE
PASS>45PSI
PASS 96HRS/NO EFFECT

1/2" ROOM TEMP PASS
1" @ -5°F PASS
1/2" @ -5°F PASS

POND KOTE

TEST

- 1 DENSITY, G/CC
- 2 COMPRESSIVE STRENGTH (28 DAY)
- 3 FLEXURAL STRENGTH (28 DAY)
- 4 WATER %
- 5 TOXICITY (96 HR LC50)

RESULTS

175
3125 PSI
1375 PSI
2250%
PASSED*

*TOXICITY TESTING WAS DONE ON FLAT HEAD MINNOWS AND RAINBOW TROUT, WITH NO ADVERSE AFFECTS TO EITHER SPECIES OF FISH

SCRATCH KOTE 2000

TEST

- 1 WEATHEROMETER
- 2 COMPRESSIVE STRENGTH
- 3 TENSILE STRENGTH
- 4 BOND STRENGTH(FLATWISE TENSION)
- 5 ABRASION
- 6 50 CYCLE FREEZE THAW
- 7 FLEXURAL STRENGTH
- 8 IMPACT RESISTANCE

METHOD

ASTM-G 23
ASTM-C 109
ASTM-C 190
ASTM-C 297
ASTM-1242A
ASTM-C 67
ASTM-D 790
MIL-D3134F

RESULTS

2000 HRS - PASSED
45 DAYS AIR CURED - 2595PSI
457 PSI
225 PSI
1000CYC-1000GMS PASSED
PASSED
MODULUS OF RUPTURE - 770PSI
PASSED

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