



## CRACK REPAIR SYSTEM

### PREPARATION OF CONCRETE SURFACE

### PRIOR TO APPLICATION OF MULTICOAT SYSTEMS

#### I. DESCRIPTION and SCOPE

The MULTICOAT CRACK REPAIR SYSTEM is a unique combination of elastomeric MULASTICOAT®, Stitchbonded Polyester Fabric, and SPEED MIX 2000 hydraulic cement. It is used to repair cracks and fissures prior to resurfacing with MULTICOAT surface restoration and waterproofing systems.

The Scope of this specification is to describe all materials and procedures required for installation of the MULTICOAT CRACK REPAIR SYSTEM.

#### II. MATERIALS

##### 1. SPEED MIX 2000

As manufactured by MULTICOAT CORPORATION

Shall be a synthetic resin modified cementitious material, furnished in dry form, mixed with potable water at job site in necessary proportions to obtain desired mortarlike consistency.

Physical properties of the cured mix shall meet or exceed the following test criteria:

##### SPEED MIX 2000

	TEST	METHOD	RESULTS
1.	Weatherometer	ASTM-G23	2000 Hrs. - Passed
2.	Compressive Strength	ASTM-C109 45 Days air cured	2595 psi
3.	Tensile Strength	ASTM-C190	457 psi
4.	Bond Strength (Flatwise Tension)	ASTM-C297	225 psi
5.	Abrasion	ASTM-1242A...	Passed

		1000cyc-1000gms	
6.	50-Cycle Freeze Thaw	ASTM-C67	Passed
7.	Flexural Strength	ASTM-D790	Modulus of Rupture - 770 psi
8.	Impact Resistance	MIL-D-3134F	Passed

2. **MULASTICOAT**® Elastomeric Waterproofing Membrane

As manufactured by MULTICOAT CORPORATION

Shall be a modified synthetic latex whose physical properties shall meet or exceed the following test criteria:

**MULASTICOAT**®

	<b>TEST</b>	<b>METHOD</b>	<b>RESULTS</b>
1.	Tensile / Elongation	ASTM-D 412-83	Aged 717psi / 392%
2.	Bond Strength Concrete	ASTM-C 297	192psi
3.	Low Temperature Flexibility		-5oF
4.	Crack Bridging	L.A. City Method	Total Elongation -205%
5.	Percolation	2" x 48" waterhead - 48 Hrs.	No Loss
6.	Accelerated Aging	ASTM-D 756 D + E	25 Cycles - Passed
7.	Water Vapor Transmission	ASTM-E 96-BW	Grains / Hr. / Ft.Sq. .0044

3. **STITCHBONDED POLYESTER FABRIC**

Shall be in accordance with the following Specifications - 10" wide rolls:

1.	Weight	2.75 oz / sq. yd.
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2.	Tensile Strength fd/td	31.6 lbs.
3.	Elongation	40.6%
4.	Mullen Burst	99.6 lbs.
5.	Tear Strength	13.2 lbs.

### III. SURFACE PREPARATION

The entire concrete substrate to be resurfaced must be prepared by removing all foreign materials that may prevent bonding. These include grease, oil, paint, dirt, sealers, laitence, curing compounds and other foreign materials. Use shotblast, sandblast, or waterblast with sand injector (min. 3500 psi). To remove grease use a biodegradable degreaser, with steam cleaning machine if necessary.

Cracks should be opened with a crack chaser to a minimum of ¼". Open cracks should be cleaned of all dust and residue.

### IV. APPLICATION

1. Prepare **SPEED MIX 2000**, vigorously field mixed with potable water to thoroughly wet and disperse all solids and attain a mortarlike consistency.
2. Fill cracks with SPEED MIX 2000. Trowel over cracks approximately 5" on each side to create an even profile with adjacent substrates. Allow to cure minimum of 2-4 hours - longer in cool weather.
3. Roll a thin coat of MULASTICOAT ® over Crack Repair area; embed 10" wide Stitchbonded Polyester Fabric in wet MULASTICOAT ®. Roll additional MULASTICOAT ® over Polyester Fabric in sufficient amount to saturate Polyester Fabric. **Do not use excess MULASTICOAT ®.** Allow to cure a minimum of 24 hours - longer in cool weather. - Maximum 72 hours - See WARNING below.
4. Proceed with application of MULTICOAT Surface Restoration KRETE KOTE 2000 or SLATEX Above Grade Systems.

### V. WARNING

**Mulasticoat Must Not Be Exposed For More Than 72 Hours Before Krete Kote 2000 Application.**

Do not apply when substrate surface temperature is below 50oF , above 100oF, if ambient temperature is below 50oF and falling, or over 100oF and expected to rise, or if precipitation is expected within a 24 hour period.

**CAUTION: CRACK REPAIR SHOULD NOT BE USED WHERE NEGATIVE SIDE WATER OR WATER VAPOR PRESSURE CAN BE PRESENT.**

### VI. WARRANTY

Materials are warranted with respect to uniformity and quality within manufacturers' specifications. Seller makes no other warranty, expressed or implied, regarding the use of its products. Since use of the product is beyond the Seller's control, the Buyer assumes all risks of use. Seller's sole obligation shall be to replace material if found to be defective. Seller shall not be liable for any damages, injury, loss, direct or indirect or consequential, resulting from use of its products.

