PARKING GARAGE RESTORATION SYSTEMS

I. DESCRIPTION and SCOPE

MULTICOAT PARKING GARAGE RESTORATION SYSTEMS are adaptable for both **weatherproofing** and **waterproofing.** The SYSTEMS utilize a super-bonding Synthetic Resin modified cementitious coating, KRETE KOTE 2000, which is durable, anti-skid, weather and chemical resistant when applied over properly prepared traffic-bearing substrates.

Weatherproofing is used over sound substrates where no leakage or water penetration has occurred.

Waterproofing is needed if water penetration has taken place in order to restore surface integrity and prevent further leakage.

II. MATERIALS

1. MULTICOAT KRETE KOTE 2000 Cementitious Coating

As manufactured by MULTICOAT CORPORATION

Shall be a synthetic resin modified cementitious material mixed with potable water at job site in necessary proportions to obtain desired application consistency.

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

KRETE KOTE 2000

	TEST	METHOD	RESULTS
1.	Weatherometer	ASTM G23	2000 Hrs - Passed
2.	Compressive Strength	ASTM C109... 45 Days air cured	2595psi
3.	Tensile Strength	ASTM-C190	457psi
4.	Bond Strength (Flatwise Tension)	ASTM-C297	225psi
5.	Abrasion Test	ASTM-1242A... 1000cyc-1000gms	39 mil loss
6.	Salt Spray	ASTM-B117	300 Hrs. - Passed
7.	Water Vapor Transmission	ASTM-E96A	1.26 Perms
8.	50-Cycle Freeze Thaw	ASTM-C67	Passed

9.	Flexural Strength	ASTM-D790	Modulus of Rupture - 770psi
10.	Impact Resistance	MIL-D-3134F	Passed
11.	Flame Spread	ASTM-E84	Class A

2. **SPEED MIX 2000** Crack Filler

As manufactured by MULTICOAT CORPORATION

Material Description and Physical Properties similar to **KRETE KOTE 2000.**

3. Elastomeric Waterproofing Membrane --- **MULASTICOAT ®**

As manufactured by MULTICOAT CORPORATION.

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

MULASTICOAT ® (Waterproof Membrane)

	TEST	METHOD	RESULTS
1.	Tensile / Elongation	ASTM-D 412-83	Aged 717 psi / 392%
2.	Bond Strength Concrete	ASTM-C 297	192 psi
3.	Low Temperature Flexibility		-5oF
4.	Crack Bridging	LA 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-E96-BW	Grains/hr./ft .sq. .0044

4. STITCHBOND POLYESTER FABRIC MESH

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

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

5. MULTICOAT **ACRATHANE COLORSEAL/CLEARSEAL**

As manufactured by MULTICOAT CORPORATION

Shall be a high solids waterbase synthetic latex protective coating for cleaning ease. Proprietary formulation and physical characteristics for compatibility with KRETE KOTE 2000.

III. SURFACE PREPARATION

NOTE: Substrate to be restored must be structurally sound.

Remove any grease, oil, paint, dust, dirt, sealers, laitence, curing compounds and other foreign materials which may prevent proper bonding. Use shotblast, sandblast or waterblast with sand injector (minimum 3,500 psi). To remove heavy grease, use biodegradable degreasers and hot steam cleaning machine. Existing cracks should be opened up with a crack chaser to a minimum of ¼". Open cracks should be cleaned of **all** dust and residue.

IV. APPLICATION

1. CRACK REPAIR

A. Prepare SPEED MIX 2000, vigorously field mixed with potable water to thoroughly wet and disperse all solids and attain a mortarlike consistency.

B. 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.

C. 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.

2. WATERPROOFING MEMBRANE FOR WATERPROOFING RESTORATION SYSTEM ONLY.

A. Apply a coat of MULASTICOAT ® to areas at junction of surface and joining or parapet walks. Embed 10" wide Stitchbonded Polyester fabric in the MULASTICOAT ®. Apply additional MULASTICOAT ® to saturate fabric and allow to dry.

B. MULASTICOAT ® is then applied over entire substrate in two (2) thin coats, with roller, using firm pressure. First coat is allowed to dry to touch, usually 1-2 hours. Depending on ambient temperature. Second coat is applied criss-cross to first coat. Be sure all voids, penholes, etc. are completely covered. Allow to cure minimum of 24 hours, longer in cool weather. Do not allow MULASTICOAT ® to be exposed for more than 3 days. The following steps are then taken for both weatherproofing and waterproofing.

3. CEMENTITIOUS COATING FOR BOTH WEATHERPROOFING AND WATERPROOFING.

A. KRETE KOTE 2000, resurfacing material, is field mixed with water to desired consistency. Ratio approximately 1 ¼ - 1 ½ gallons of water to 65 lb bag (see KRETE KOTE system instructions).

FIRST COAT - Apply with squeegee, and allow to dry (usually about 1-2 hours).
SECOND COAT - Apply same as first coat.
THIRD COAT - if texture is desired, apply KRETE KOTE with hopper gun for French Lace Texture, or roll with ¼" texture roller for texture finish.

ALLOW TO CURE MINIMUM 24 HOURS IF COLORSEAL IS TO BE APPLIED.

4. COLORSEAL / CLEARSEAL

Apply in two (2) thin coats. (See instructions)

NOTE: The entire system must be allowed to cure a **minimum** of 72 hours **after** KRETE KOTE 2000 or COLORSEAL is applied, **longer in cold weather** before allowing vehicle traffic.

V. WARNING

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

IF ANY SECTION OF CONCRETE TO BE RESURFACED IS SUBJECT TO POSSIBLE NEGATIVE SIDE WATER OR WATER VAPOR PRESSURE, CHECK WITH MANUFACTURER BEFORE PROCEEDING.

VI. WARRANTY

Materials are guaranteed 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.