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Tennis Court Coatings

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W. P. Miller

UNION CARBIDE CORPORATION 2326 LONNECKER DRIVE, GARLAND, TX 75041-1296
COATINGS MATERIALS DIVISION PHONE:(214)271-2451
Water-Borne Coatings Materials Plant

NOVEMBER 15, 1982

Mr. Randy Funston
TEX-HIDE INC.
P.O. BOX 5866
Arlington,TX 76011

Dear Mr. Funston:

As discussed over the phone last week, attached is a suggested starting formulation of a dark green tennis-court topcoat based on Union Carbide's UCAR Acrylic 505 or TPX-6211 latex polymers.

Dr. Dale Massey has suggested these type polymers as closest to the performance of Rhoplex AC-507 for this application. He has arranged for gallon samples of each latex to be sent to your attention for this evaluation.

Formulation 4JG-171A would offer a good approximation of many current commercial tennis-court topcoat products. Yes, as you mentioned, it contains some asbestos-like fiber-extender; but many others on the market also continue to employ this extender. Your employees must wear a dust mask suitable for the particle-sized asbestos product you select. CALIDRIA type extender has less dusting problem than conventional asbestos fillers because of their unique shape. The next best replacement would be a long-fiber talc extender. "RUFF-BUFF" fine sand is supplied by TAMMS INC.-North Front St.-Tamms,IL 62988.This offers a non-skid surface. For filler coats one would stir-in a quart/gallon of a coarser-type sand.

This formulation is usually reduced 3:1 by volume with potable water per application at a spread-rate of 100 Sq.Ft./Gallon/coat with a minimum of two coats for best durability.For other colors substitute respective pigments.

We certainly hope this data will help your company get started faster in this specialty field. Please test a gallon-sized trial batch before scaling-up to a 100-gallon size production batch.

Attachment(1)
RP:rp

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Very truly yours,
R.C. Pierrehumbert
R.C. Pierrehumbert
Coatings Scientist

CC: B.A. Marmaduke-Union Carbide Corporation
Dallas Sales Office

QUALITY EMULSION POLYMERS



UNION CARBIDE

SUGGESTED
DK. GREEN ACRYLIC TOPCOAT FOR TENNIS COURTS

4JG-171A

ADD THE FOLLOWING INGREDIENTS UNDER AGITATION:	LBS.	GALLONS
WATER	300.0	36.0
CELLOSIZE QP-15000	3.0	0.3
	(MIX FOR 5-MIN.,THEN CONTINUE)	
TROY POLYPHASE ANTI-MILDEW	3.0	0.3
TROYSAN 192 Preservative	2.0	0.2
POTASSIUM TRIPOLYPHOSPHATE	1.0	0.1
NALCO 2324 Dispersant	6.0	0.6
NALCO 2300 Defoamer	0.7	0.1
TERGITOL NP-40(70AQ)Wetting Agt.	3.0	0.4
BUTYL CARBITOL	9.0	1.0
PROPYLENE GLYCOL	25.0	2.7
ASP-400 CLAY	75.0	3.5
GOLD BOND "R" AMOR. SILICA	50.0	2.3
G-6099 CHROME OXIDE GRN.	75.0	1.8
BK-5098 BLK. IRON OXIDE	5.0	0.1
	DISPERSE TO HEGMAN GRIND #3,THEN ADD WITH SLOWER AGITATION:	
" RUFF-BUFF" SAND(Very Fine Type)	75.0	3.4
UCAR ACRYLIC 505 or TPX-6211	369.0	40.5
HERCOFLEX 900(Polymeric Plasticiser)	22.5	2.5
WATER	105.0	12.6
CALIDRIA HPO FIBERS	45.0	2.0
TERGITOL NP-40(70AQ)	2.0	0.2
NALCO 2303 Defoamer	5.0	0.6
28% AMMONIUM HYDROXIDE	1.0	0.1
WATER	25.0	3.0
TOTALS	1207.2	114.3

PHYSICAL CHARACTERISTICS

% PVC	36.2
TOTAL SOLIDS BY WT.(%)	47.0
pH VALUE	8.0 to 8.5
APPROX. RMC/GAL.	$ 3.53
APPROX. YIELD(GALLONS)	114
PVC/CPVC RATIO	0.98

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Union Carbide trial exhibit UC-874: R. C. Pierrehumbert to Randy Funston (Tex-Hide Inc.) on a Tennis-Court Topco... Published by AsbestosClaims.Law
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