

For the first time,
leveling and fusion
in a single emulsion
paint vehicle.

AIRCOFLEX 510

GLD005974

AIRCOFLEXTM 510 for interior and exterior paints

Aircoflex 510 is the first latex vehicle ever introduced that combines a strong pigment-binding capacity and good low-temperature coalescing properties with good leveling and hiding.

Its pigment binding and coalescence come from its deformability and particle size distribution. Because of these properties, it can be formulated into paints having excellent color and sheen uniformity as well as good touch-up properties. Its leveling and hiding are comparable to those of coarse-particle-size latices. It is well known that the latter, unlike Aircoflex 510, do not fuse well at low temperatures, nor do they have

the pigment-binding capacity of fine-particle-size latices. Hence, Aircoflex 510 manages to combine a set of properties that have been unobtainable up to now in a single emulsion vehicle. It can do this because of its unique acetoxylated polyethylene copolymer backbone.

Another property directly traceable to its copolymer backbone is its resistance to ultraviolet light. Although Aircoflex 510 is partially composed of ethylene, it is not attacked by ultraviolet light because branching does not occur in the ethylene segments of the molecule. This prevents film degradation and early chalking, thereby insuring a

long film life with good tint retention.

The unique copolymer structure is also responsible for the alkali resistance of Aircoflex 510. The wide spacing of the acetoxyl groups on the polymer backbone enables Aircoflex 510 to resist hydrolyzing in the presence of alkali.

The flexibility and elongation of the Aircoflex 510 copolymer are similar to those of the original acetoxylated polyethylene copolymer, but Aircoflex 510 is tougher and less soft. Its molecular weight is high, which gives the finished paint film good scrubability on interior surfaces, and durability and resistance to dirt pickup on exteriors.

TYPICAL EMULSION PROPERTIES

Total solids	55% Min.
Viscosity*	200 to 600 cps.
pH	5 to 6
Residual monomer	0.5% Max.
Copolymer type	Acetoxylated polyethylene
Appearance	Milky white
Odor	Slight
Average particle size	0.3 μ
Particle charge	Nonionic
Mechanical stability**	Stable
Weight per gallon at 77° F.***	9.1 pounds
Reaction to borax	None; stable

TYPICAL FILM PROPERTIES

Clarity	Water clear
Gloss	High
Light stability	Excellent
Aging characteristics	Excellent
Film formation	Excellent
Water resistance	Excellent
Flexibility	Excellent

*Brookfield Viscometer, Model LVF, at 60 r.p.m. and 25° C.

**Passes 30 minutes in a Waring Blendor at high speed.

***Foam-free.

GLD005975

SUGGESTED FORMULAS

51010

INTERIOR PRIMER- SEALER

Yield ... 100 gallons
PVC 35%
Solids 45%
RMC ... About \$0.92
per gallon

	Pounds
Methocel 65HG, 4000 cps. (3% solution)	75
Tamol 731	5
Igepal CO-610	4
Ethylene glycol	20
Colloid 677	3
Texanol	8
Phenyl mercuric acetate (18% mercury metal)	0.3
Ti-Pure R-901	75
Camel-TEX	100
Asbestine 3X	100
Methocel 65HG, 4000 cps. (3% solution)	90
Water	210
AIRCOFLEX 510	360

51011

INTERIOR WHITE

Yield . 100.5 gallons
PVC 55%
Solids 51%
RMC ... About \$1.30
per gallon

	Pounds
Methocel 65HG, 4000 cps. (3% solution)	75
Tamol 850	7
Igepal CO-610	4
Ethylene glycol	25
Colloid 677	2
Texanol	10
Phenyl mercuric acetate (18% mercury metal)	0.3
Titanox RA-46	250
Zeolex 80	25
Carblum	150
Celite 281	35
Water	280
Colloid 677	2
Methocel 65HG, 4000 cps. (3% solution)	80
AIRCOFLEX 510	250

51012

INTERIOR TINT BASE

Yield ... 101 gallons
PVC 54%
Solids 49%
RMC ... About \$0.98
per gallon

	Pounds
Methocel 65HG, 4000 cps. (3% solution)	75
Igepal CO-610	4
Tamol 850	6
Ethylene glycol	25
Colloid 677	4
Texanol	9
Phenyl mercuric acetate (18% mercury metal)	0.3
Titanox RA-46	150
Lorite	100
Asbestine 3X	100
Gold Bond R Silica	75
Methocel 65HG, 4000 cps. (3% solution)	80
Colloid 677	1
Water	278
AIRCOFLEX 510	250

51013

INTERIOR WHITE

Yield ... 101 gallons
PVC 62%
Solids 45%
RMC ... About \$0.90
per gallon

	Pounds
Natrosol 250 HR (2% solution)	75
R & R 551	6
Igepal CO-610	4
Potassium tripolyphosphate	1.5
Ethylene glycol	25
Dalpad A	8
Colloid 677	3
Ti-Pure R-901	150
Al-Sil-Ate W	100
Camel-CARB	100
Celite 281	50
Phenyl mercuric acetate (18% mercury metal)	0.3
Natrosol 250 HR (2% solution)	200
Water	225
AIRCOFLEX 510	175

51014

EXTERIOR WHITE

Yield ... 101 gallons
PVC 40%
Solids 46%
RMC ... About \$1.41
per gallon

	Pounds
Natrosol 250 HR (2% solution)	100
Tamol 850	7
Igepal CO-610	4
Colloid 677	3
Ethylene glycol	25
Texanol	7
Super Ad-It	5
Titanox RA-50	225
Titanox A-168-LO	25
Nyral 300	100
Natrosol 250 HR (2% solution)	160
Water	165
AIRCOFLEX 510	300

51015

EXTERIOR TINT BASE

Yield . 100.5 gallons
PVC 36%
Solids 49%
RMC ... About \$1.22
per gallon

	Pounds
Natrosol 250 HR (2% solution)	100
Tamol 850	7
Igepal CO-610	4
Colloid 677	3
Ethylene glycol	25
Texanol	7
Super Ad-It	5
Ti-Pure R-610	150
Lorite	75
Snowflake White	75
Natrosol 250 HR (2% solution)	125
Water	150
AIRCOFLEX 510	350

