

Corrosion protective coatings ESACOTE AC 509



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New binder for WB corrosion protection

ESACOTE AC 509

Typical values

Appearance at 25 °C:	milky liquid	
pH:	7,5-8,5	
(at 25°C on supplied product, ASTM E 70)		
Viscosity (mPa.s):	< 1000	
(Brookfield RVT @ 25 °C, 50 rpm spindle 2)		
Solid content, %:	42.0-44.0	

Product properties

Solvent content, %:	0%
Minimal film forming temperature, °C: ~25	
Koenig hardness (sec):	~65
Film aspect:	transparent and glossy

Please contact our sales representatives for test methods details.



		Trade name	% w
STE	P 1: ADD IN ORDER WITH	GOOD AGITATION IN MILL BAS	ETAN
A1	Water	WATER	7.0
B1	Dispersing agent	TEGODISPERSE 750 W	1.0
	(EVONIK)		
C1	Defoamer (BYK)	BYK 024	0.3
D1	Neutralizer (ANGUS)	AMP 90	0.2
E1	Thickener (MUNZING)	TAFIGEL PUR 85	0.5
F1	Titanium dioxide	KRONOS 2190	17.5
	(KRONOS)		
	DISPERSE WITH HIG	H SHEAR FOR 10-15' AND ADD:	
G1	Anticorrosive additive	ASCONIUM 500	1.C
	(ASCOTEC)		
LET DOWN: MIX UNDER CONSTANT STIRRING:			
H1	Binder	ESACOTE [®] AC 509	55.8
1	Water	WATER	12.9
L1	Defoamer (BYK)	BYK 024	0.1
M1	Coalescing agent (DOW)	DOWANOL DPnB	2.3
N1	Anti flash rust	ASCOTRAN H-10	0.5
	(ASCOTEC)		
ADD MILL BASE WITH HIGH SHEAR FOR 5-10' - ADJUST VISCOSIT			OSIT
	Thickener (DOW)	ACRYSOL RM8W	0.7
Total			100

PAINT DATA		
PVC	15,7%	
PVC/cPVC	0.28	
Gloss (60°)	98	
SALT SPRAY TEST R	ESULTS (ISO-9227)	
Blistering (ISO 4628-2)	O (SO)	
Rusting (ISO 4628-3)	RiO	
Corrosion at scribe (ISO 12944)	<1.5mm	
Adhesion after 7 days (ISO 2409)	0	
CONDENSATION TEST RESULTS (ISO-6270)		
Blistering (ISO 4628-2)	O (SO)	
Rusting (ISO 4628-3)	RiO	
Adhesion after 7 days (ISO 2409)	0	
TEST CONDITIONS		
Substrate	Sandblasted steel SA2,5	
Test duration (ISO 9227)	720 h	
Test duration (ISO 6270)	480 h	
Application	1 layer	
DFT	90 μ	

CORROSION CLASSES:

- > C3 VERY HIGH: urban or light industrial with moderate SO_2 level or process are of high humidity more than 25 years
- C4 HIGH: medium to high corrosion environment for mostly land based structure between 12 and 25 years
- C5 MEDIUM: high to severe conditions environment in land based and coastal structure between 7 and 15 years

STEP 1: ADD IN ORDER WITH GOOD AGITATION IN MILL BASE TAILA1WaterWATER7.0B1Dispersing agentTEGODISPERSE 750 W1.0(EVONIK)TEGODISPERSE 750 W0.3C1Defoamer (BYK)BYK 0240.3D1Neutralizer (ANGUS)AMP 900.2E1Thickener (MUNZING)TAFIGEL PUR 850.5F1Titanium dioxideKRONOS 219017.5(KRONOS)OISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD:0EI Anticorrosive additive (ASCOTEC)LET DOWN: MIX UNDER CONSTANT STIRRING:H1BinderESACOTE® AC 50955.I1WaterWATER11.4L1Defoamer (BYK)BYK 0240.1M1Coalescing agent (DOW)DOWANOL DPnB2.3N1Anti flash rust (ASCOTEC)ASCOTRAN H-100.5ADD MILL BASE WITH HIGH SHEAR FOR 5-10' - ADJUST VISCOSIT Thickener (DOW)ACRYSOL RM8W0.7			Trade name	% w
A1 Water WATER 7.0 B1 Dispersing agent (EVONIK) TEGODISPERSE 750 W 1.0 C1 Defoamer (BYK) BYK 024 0.3 D1 Neutralizer (ANGUS) AMP 90 0.2 E1 Thickener (MUNZING) TAFIGEL PUR 85 0.5 F1 Titanium dioxide (KRONOS) KRONOS 2190 17.5 DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD: (KRONOS) DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD: (KRONOS) DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD: (KRONOS) DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD: (ASCOTEC) DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD: (ASCOTEC) USE WITH HIGH SHEAR FOR 10-15' AND ADD: (ASCOTEC) DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD: (ASCOTEC) II Water H1 Binder ESACOTE® AC 509 55. I1 Water WATER 11.4 L1 Defoamer (BYK) BYK 024 0.1 M1 Coalescing agent (DOW) DOWANOL DPnB 2.3 N1 Anti flash rust (ASCOTEC) ACRYSOL RM8W 0.7 <td< th=""><th>STE</th><th>P 1: ADD IN ORDER WITH</th><th>GOOD AGITATION IN MILL BAS</th><th>ETAN</th></td<>	STE	P 1: ADD IN ORDER WITH	GOOD AGITATION IN MILL BAS	ETAN
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(ASCOTEC)Image: Constant of the state of the	N1	Anti flash rust	ASCOTRAN H-10	0.5
ADD MILL BASE WITH HIGH SHEAR FOR 5-10' - ADJUST VISCOSITThickener (DOW)ACRYSOL RM8W0.7Total10		(ASCOTEC)		
Thickener (DOW)ACRYSOL RM8W0.7Total10	ADD MILL BASE WITH HIGH SHEAR FOR 5-10' - ADJUST VISCOSIT			OSIT
Total 10		Thickener (DOW)	ACRYSOL RM8W	0.7
	Total			100

PAINT DATA		
PVC	15,7%	
PVC/cPVC	0.28	
Gloss (60°)	98	
SALT SPRAY TEST R	ESULTS (ISO-9227)	
Blistering (ISO 4628-2)	O (SO)	
Rusting (ISO 4628-3)	RiO	
Corrosion at scribe (ISO 12944)	<1.5mm	
Adhesion after 7 days (ISO 2409)	0	
CONDENSATION TEST RESULTS (ISO-6270)		
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Adhesion after 7 days (ISO 2409)	0	
TEST CONDITIONS		
Substrate	Sandblasted steel SA2,5	
Test duration (ISO 9227)	720 h	
Test duration (ISO 6270)	480 h	
Application	1 layer	
DFT	90 μ	

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