



Corrosion protective coatings

ESACOTE AC 509



DISCLAIMER

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New binder for WB corrosion protection

ESACOTE AC 509

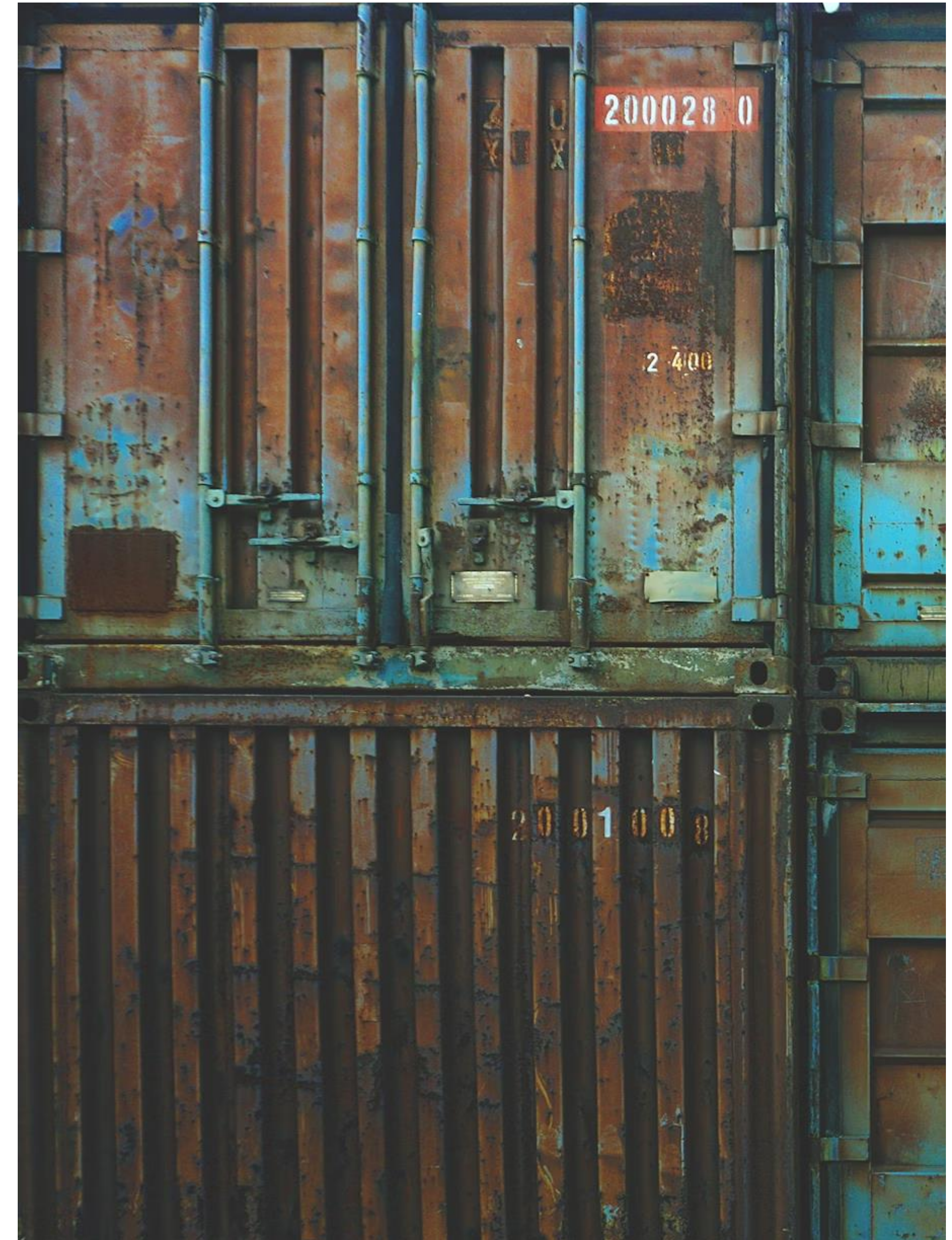
Typical values

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

Product properties

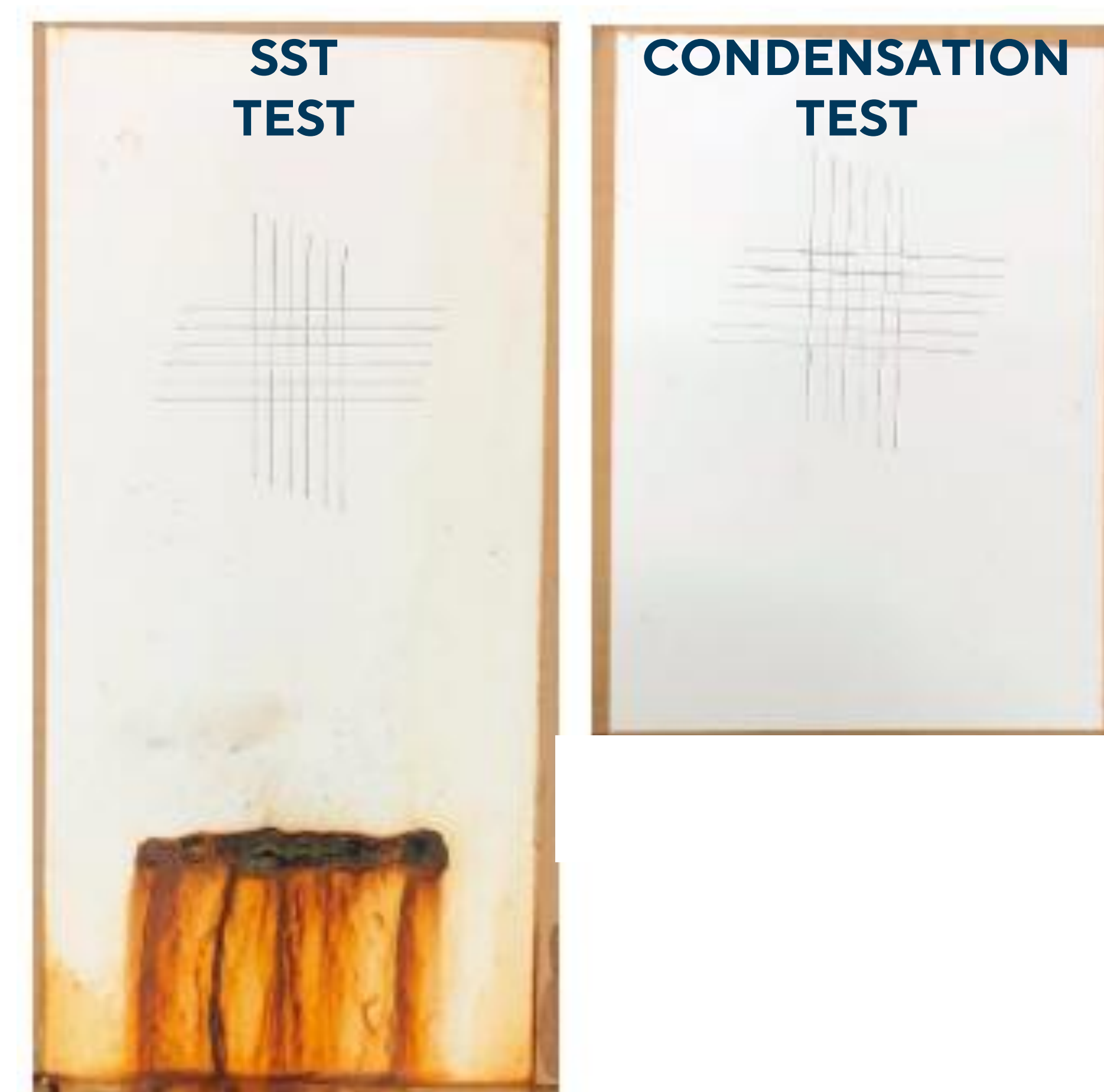
Solvent content, %:	0%
Minimal film forming temperature, °C:	~25
Koenig hardness (sec):	~65
Film aspect:	transparent and glossy

Please contact our sales representatives for test methods details.



White DTM starting formulation #1

		Trade name	% w/w
STEP 1: ADD IN ORDER WITH GOOD AGITATION IN MILL BASE TANK			
A1	Water	WATER	7.00
B1	Dispersing agent (EVONIK)	TEGODISPERSE 750 W	1.05
C1	Defoamer (BYK)	BYK 024	0.30
D1	Neutralizer (ANGUS)	AMP 90	0.20
E1	Thickener (MUNZING)	TAFIGEL PUR 85	0.50
F1	Titanium dioxide (KRONOS)	KRONOS 2190	17.50
DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD:			
G1	Anticorrosive additive (ASCOTEC)	ASCONIUM 500	1.0
LET DOWN: MIX UNDER CONSTANT STIRRING:			
H1	Binder	ESACOTE® AC 509	55.81
I1	Water	WATER	12.91
L1	Defoamer (BYK)	BYK 024	0.15
M1	Coalescing agent (DOW)	DOWANOL DPnB	2.33
N1	Anti flash rust (ASCOTEC)	ASCOTRAN H-10	0.50
ADD MILL BASE WITH HIGH SHEAR FOR 5-10' - ADJUST VISCOSITY:			
	Thickener (DOW)	ACRYSOL RM8W	0.75
Total			100





White DTM starting formulation #1

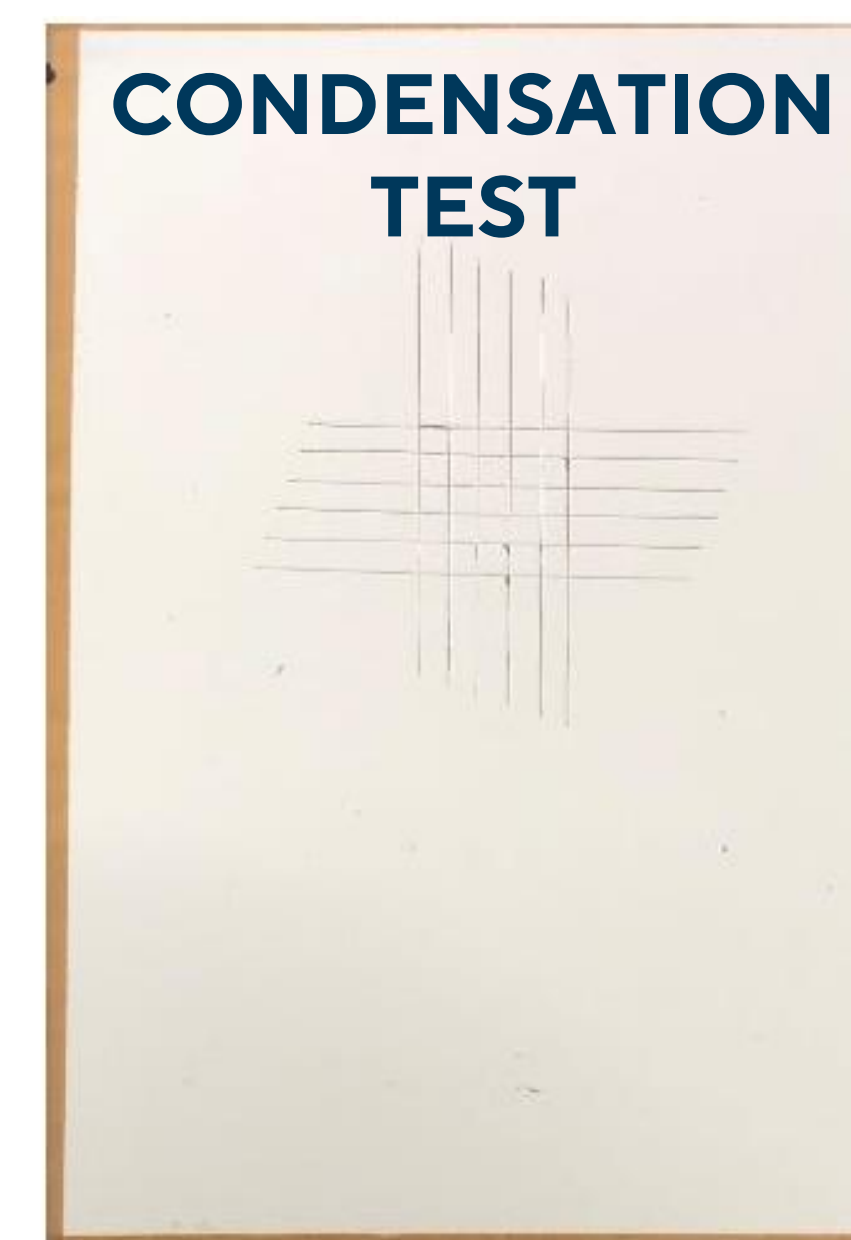
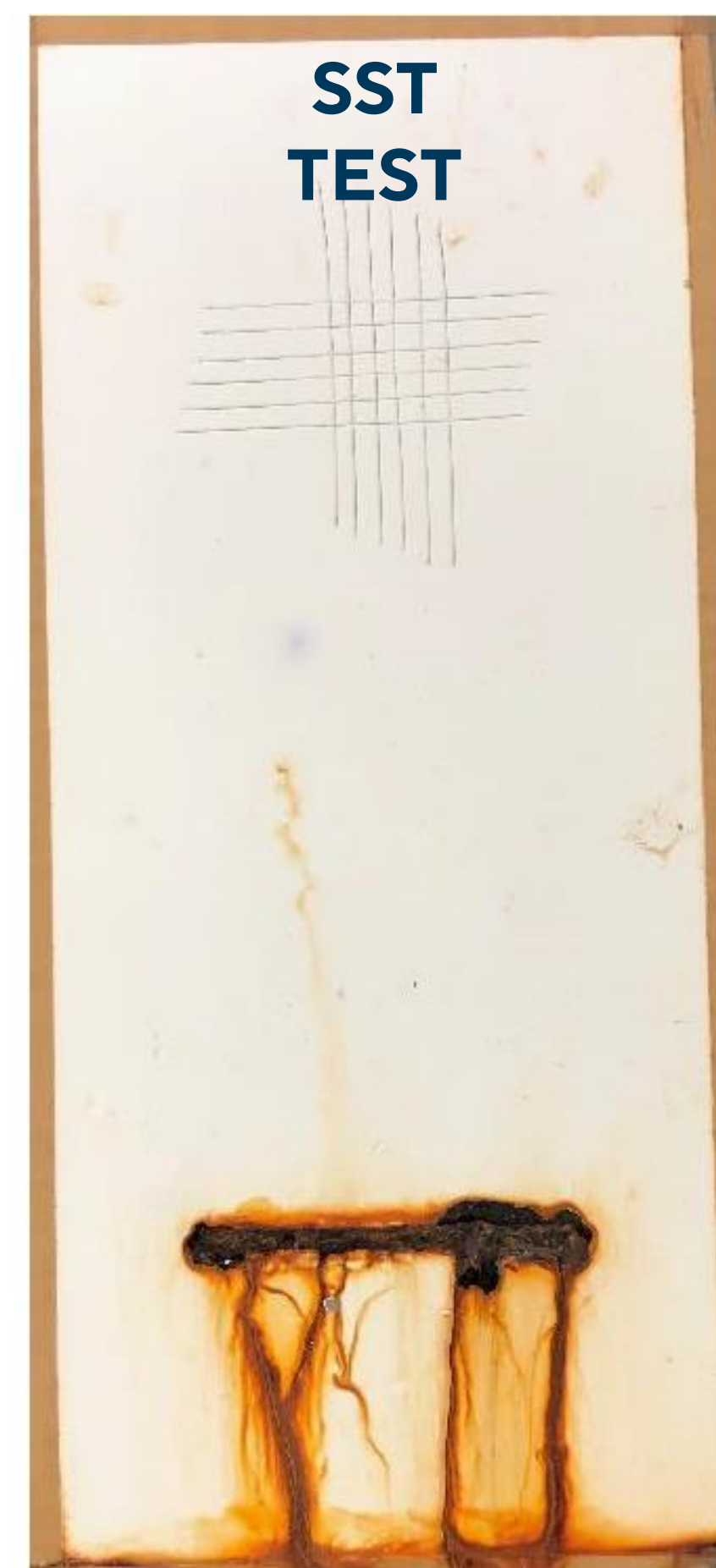
PAINT DATA	
PVC	15,7%
PVC/cPVC	0.28
Gloss (60°)	98
SALT SPRAY TEST RESULTS (ISO-9227)	
Blistering (ISO 4628-2)	0 (S0)
Rusting (ISO 4628-3)	Ri0
Corrosion at scribe (ISO 12944)	<1.5mm
Adhesion after 7 days (ISO 2409)	0
CONDENSATION TEST RESULTS (ISO-6270)	
Blistering (ISO 4628-2)	0 (S0)
Rusting (ISO 4628-3)	Ri0
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 SO₂ level or process area 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

White DTM starting formulation #2

		Trade name	% w/w
STEP 1: ADD IN ORDER WITH GOOD AGITATION IN MILL BASE TANK			
A1	Water	WATER	7.00
B1	Dispersing agent (EVONIK)	TEGODISPERSE 750 W	1.05
C1	Defoamer (BYK)	BYK 024	0.30
D1	Neutralizer (ANGUS)	AMP 90	0.20
E1	Thickener (MUNZING)	TAFIGEL PUR 85	0.50
F1	Titanium dioxide (KRONOS)	KRONOS 2190	17.50
DISPERSE WITH HIGH SHEAR FOR 10-15' AND ADD:			
G1	Anticorrosive additive (ASCOTEC)	ASCONIUM 142 DA	2.5
LET DOWN: MIX UNDER CONSTANT STIRRING:			
H1	Binder	ESACOTE® AC 509	55.81
I1	Water	WATER	11.41
L1	Defoamer (BYK)	BYK 024	0.15
M1	Coalescing agent (DOW)	DOWANOL DPnB	2.33
N1	Anti flash rust (ASCOTEC)	ASCOTRAN H-10	0.50
ADD MILL BASE WITH HIGH SHEAR FOR 5-10' - ADJUST VISCOSITY:			
	Thickener (DOW)	ACRYSOL RM8W	0.75
Total			100





White DTM starting formulation #2

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PVC	15,7%
PVC/cPVC	0.28
Gloss (60°)	98
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Blistering (ISO 4628-2)	0 (S0)
Rusting (ISO 4628-3)	Ri0
Corrosion at scribe (ISO 12944)	<1.5mm
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Rusting (ISO 4628-3)	Ri0
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TEST CONDITIONS	
Substrate	Sandblasted steel SA2,5
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