Project No.: EA16450

115

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation Technical Standards Branch 2nd Floor, Twin Atria Building 4999 - 98 Ave

Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited
5671 - 70 Street
Edmonton, AB
Canada T6B 3P6
Tel +1 (780) 436-2152
Fax +1 (780) 377-3599

Fo	ormulation:	s	upplier:	PPG					
White	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number 2023	Relative Density (25/25°C)	Viscosity	Non- Volatile Content	Pigment Content	Dry to Touch	Date Sampled	Date Received	Applicator and Location
B9	CPP2207W0808	1.613	(Krebs) 73.4*	(%) 78.2	(%) 60.6	(Minutes)	2023	2023	Line West Hwy 4 :04 Con# 23414
	CFF2207 VV0606	1.013	73.4	10.2	00.0	3.1	May-19	May-24	Line West Hwy 4 .04 Con# 25414
		100	Toleranc	e Limits					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
L	Jpper Limit	1.705	84.8	80.9	63.1				
L	ower Limit	1.605	74.8	76.9	59.1				

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

Reviewed By:

Project No.: EA16450

1120

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
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Tel +1 (780) 436-2152
Fax +1 (780) 377-3599

Fo	ormulation:	S	upplier:	PPG					
White '	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number	Relative Density	Viscosity	Non- Volatile Content	Pigment Content	Dry to Touch	Date Sampled	Date Received	Applicator and Location
	2023	(25/25°C)	(Krebs)	(%)	(%)	(Minutes)	2023	2023	
B15	CPP2207W0830	1.635	77.0	79.1	61.6	3.0	N/A	May-25	Line King Highways Corporation, West Calgary Ring Road
B17	CPP2305W0521	1.627	76.6	78.4	60.8	3.1	May-31	Jun-2	Line West Hwy 3:14 Con#23414
			Toleranc	e Limits					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
U	Jpper Limit	1.705	84.8	80.9	63.1				
L	ower Limit	1.605	74.8	76.9	59.1				

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

19-Jun-23 DATE

Reviewed By:

Project No.: EA16450

115)

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation

Technical Standards Branch

2nd Floor, Twin Atria Building

4999 - 98 Ave

Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited

5671 - 70 Street

Edmonton, AB

Canada T6B 3P6

Tel +1 (780) 436-2152

Fax +1 (780) 377-3599

Fo	rmulation:	S	upplier:	PPG					
White \	White WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number	Relative Density	Viscosity	Non- Volatile Content	Pigment Content	Dry to Touch	Date Sampled	Date Received	Applicator and Location
	2023	(25/25°C)	(Krebs)	(%)	(%)	(Minutes)	2023	2023	
B20	CPP2305W0521	1.627	78.6	78.8	61.1	3.0	Jun-1	Jun-7	Line West Hwy 36:02 Con#22248
B22	CPP2305W0521	1.636	79.0	78.8	61.2	2.9	Jun-5	Jun-8	Line West Hwy 2:08 Con#23414
			Toleranç	e Limits					L
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
Upper Limit		1.705	84.8	80.9	63.1				
Lower Limit		1.605	74.8	76.9	59.1				

Indicates result outside tolerance limits.

Test not Required by AT

PER:

20-Jun-23

DATE

Reviewed By:

Project No.: EA16450

1150

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
4999 - 98 Ave
Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited
5671 - 70 Street
Edmonton, AB
Canada T6B 3P6
Tel +1 (780) 436-2152
Fax +1 (780) 377-3599

Formulation: White WB EF-61-0035		upplier:	PPG					
		Tests R	equired					
Batch Number	Relative Density	Viscosity	Non- Volatile Content	Pigment Content	Dry to Touch			Applicator and Location
		<u> </u>						
CPP2304W0422	1.618	/8.4	79.0	61.3	2.9	Jun-16	Jun-20	Line West Hwy 9:04
		Toleranc	e Limits					
EF-61-0035	1.655	79.8	78.9	61.1				
rance Limits			± 2%	± 2%				
	± 0.05	± 5	absolute	absolute				
pper Limit	1.705	84.8	80.9	63.1				
ower Limit	1.605	74.8	76.9	59.1				1
-	Batch Number 2023 CPP2304W0422 EF-61-0035 rance Limits	### BEF-61-0035 Batch	### Tolerance Limits #### Page 1.0035 Columbda	Tests Required Non-Volatile Content	Tests Required Pigment Content Content	Tests Required Pigment Dry to Touch Content Content	Tests Required Pigment Dry to Date Sampled Content C	Tests Required Relative Viscosity Non- Volatile Content Content Touch Sampled Received R

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

10-Jul-23 DATE

Reviewed By:

Project No.: EA16450

1150

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
4999 - 98 Ave
Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited
5671 - 70 Street
Edmonton, AB
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Tel +1 (780) 436-2152
Fax +1 (780) 377-3599

Fo	Formulation:		upplier:	PPG					
White	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number 2023	Relative Density (25/25°C)	Viscosity (Krebs)	Non- Volatile Content (%)	Pigment Content (%)	Dry to Touch (Minutes)	Date Sampled 2023	Date Received 2023	Applicator and Location
B38	CPP2304W0422	1.618	78.4	79.0	61.3	2.9	Jun-16	Jun-20	Line West Hwy 9:04
B46	CPP2203W0115	1.621	78.0	78.2	60.7	2.9	Jun-27	Jul-3	Aecon Hwy310 Con#22874
			Toleranc	e Limits				L	
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	Tolerance Limits			± 2%	± 2%				
			± 5	absolute	absolute				
L	Jpper Limit	1.705	84.8	80.9	63.1				
<u> </u>	Lower Limit		74.8	76.9	59.1				

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

Reviewed By:

Project No.: EA16450

115

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Technical Standards Branch
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Edmonton, AB T6B 2X3

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Fo	rmulation:	S	upplier:	PPG					
White	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number 2023	Relative Density (25/25°C)	Viscosity (Krebs)	Non- Volatile Content (%)	Pigment Content (%)	Dry to Touch (Minutes)	Date Sampled 2023	Date Received 2023	Applicator and Location
B48	CPP2305W0521	1.630	82.2	77.4	61.3	3.1	Jul-10	Jul-12	Line West Hwy 2A:18 Con#20961
B50	CPP2304W0422	1.645	83.5	78.1	61.9	3.1	Jul-6	Jul-12	Line West Hwy 9 :02 Con#23414
B54	CPP2207W0830	1.641	75.0	78.5	61.1	3.1	Jul-12	Jul-14	Line King Hwy 3:10
B58	CPP2305W0620	1.637	84.7	77.8	62.2	3.0	Jun-1	Jul-18	Lafrentz Hwy 791:02 Con#23414
			Toleranc	e Limits					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
			± 5	absolute	absolute				
U	pper Limit	1.705	84.8	80.9	63.1				
LL	ower Limit	1.605	74.8	76.9	59.1				

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

Reviewed By:

Project No.: EA16450

115

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
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Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited 5671 - 70 Street Edmonton, AB Canada T6B 3P6 Tel +1 (780) 436-2152

Fax +1 (780) 377-3599

Supplier: **PPG** Formulation: Tests Required White WB EF-61-0035 Lab Batch Relative Dry to Viscosity Non-Pigment Date Date Applicator and Location Sample Number Volatile Density Content Touch Sampled Received Number Content 2023 (25/25°C) 2023 (Krebs) (%) (%) (Minutes) 2023 **B60** CPP2304W0349 1.624 78.8 77.6 Ledcor Hwy 508 W & Hwy 32: 08 km 542 Sampler D, Farr 780-712-3372 59.3 2.9 Jul-18 Jul-20 **B62** CPP2305W0521 1.630 82.2 77.0 61.2 3.0 Jul-17 Line West Hwy 817 Con#12801 Jul-20 **B64** CPP2305W0521 1.681 79.7 79.3 61.5 3.2 Jun-27 Jun-29 Line West Deefoot Trail improvement 64th ave Con#23230 **B66** CPP2305W0521 1.609 77.0 78.6 60.5 3.1 Jul-18 Jul-24 Line West Hwy 24 Con#23414 **B68** 1.601* 3.2 CPP2305W0521 78.8 78.7 60.7 Jul-18 Jul-24 Line West Hwy 817 Con#12801 **B70** CPP2305W0521 1.643 83.8 77.3 61.4 2.9 Jul-23 Jul-25 Line West Hwy1A Con#23414 **Tolerance Limits** 2020 EF-61-0035 1.655 79.8 78.9 61.1 **Tolerance Limits** ± 2% ± 2% ± 0.05 ± 5 absolute absolute **Upper Limit** 1.705 84.8 80.9 63.1 Lower Limit 1.605 74.8 76.9 59.1

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

31-Jul-23

DATE

Reviewed By:

Project No.: EA16450

wsp

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
4999 - 98 Ave
Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited
5671 - 70 Street
Edmonton, AB
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Fax +1 (780) 377-3599

Fo	ormulation:	S	upplier:	PPG				111	
White	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number	Relative Density	Viscosity	Non- Volatile Content	Pigment Content	Dry to Touch	Date Sampled	Date Received	Applicator and Location
	2023	(25/25°C)	(Krebs)	(%)	(%)	(Minutes)	2023	2023	
B105	CPP2305W0521	1.591*	70.1*	76.9	59.7	3.2	Aug-23	Aug-25	AEOON Hwy 785:02 Con#22613
			Toleranc	o l'imite					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
L	Jpper Limit	1.705	84.8	80.9	63.1				
L	ower Limit	1.605	74.8	76.9	59.1				

* Indicates result outside tolerance limits. Test not Required by AT	11	
PER:	7	∮ 6-Sep-23
Re	viewed By:	DATE

Project No.: EA16450

WSD

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
4999 - 98 Ave
Edmonton, AB T6B 2X3

Distribution Addressee: WSP E&I Canada Limited 5671 - 70 Street Edmonton, AB Canada T6B 3P6 Tel +1 (780) 436-2152 Fax +1 (780) 377-3599

Fo	ormulation:	S	upplier:	PPG					
White	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number 2023	Relative Density (25/25°C)	Viscosity (Krebs)	Non- Volatile Content (%)	Pigment Content (%)	Dry to Touch (Minutes)	Date Sampled 2023	Date Received 2023	Applicator and Location
B126	CPP2303W0265	1.677	72.2*	77.6	60.8	2.9	Aug-26		Line West WCRR-DB2 N of old banff coach road Bow TR Con#20825
			Toleranc	e Limíts					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
L	Jpper Limit	1.705	84.8	80.9	63.1				
L	ower Limit	1.605	74.8	76.9	59.1				

* Indicates result outside tolerance limits.
Test not Required by AT

PER:

Reviewed By:

₹25-Sep-23

DATE

Project No.: EA16450

wsp

Attn: Rishi Adhikari, P.Eng.

To: Alberta Transportation
Technical Standards Branch
2nd Floor, Twin Atria Building
4999 - 98 Ave
Edmonton, AB T6B 2X3

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Fo	ormulation:	S	upplier:	PPG					
White	WB EF-61-0035		Tests R	equired					
Lab Sample Number	Batch Number 2023	Relative Density (25/25°C)	Viscosity (Krebs)	Non- Volatile Content (%)	Pigment Content (%)	Dry to Touch (Minutes)	Date Sampled 2023	Date Received 2023	Applicator and Location
B140	CPP2303W0265	1.648	84.4	77.4	61.8	3.1	Sep-5		AECON Hwy 507:04 Con#22613
			Toleranc	e Limits					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tole	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
L	Jpper Limit	1.705	84.8	80.9	63.1				
L	ower Limit	1.605	74.8	76.9	59.1				· · · · · · · · · · · · · · · · · · ·

* Indicates result outside tolerance limits.

Test not Required by AT

PER:

Reviewed By:

Formulation:

White WB EF-61-0035

Batch

Number

2023

Lab

Sample

Number

Project No.: EA16450

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> Date Applicator and Location Received 2023

B150	CPP2303W0265	1.597*	74*	77.8	60.8	3.0	N/A	Sep-21	AECON Hwy 2:22 SB Con#20585
			Tolerand	e Limits					
2020	EF-61-0035	1.655	79.8	78.9	61.1				
Tol	erance Limits			± 2%	± 2%				
		± 0.05	± 5	absolute	absolute				
l	Jpper Limit	1.705	84.8	80.9	63.1				
	ower Limit	1.605	74.8	76.9	59.1				

Date

Sampled

2023

Dry to

Touch

(Minutes)

PPG

Non-

Volatile

Content

(%)

Pigment

Content

(%)

Tests Required

Supplier:

Viscosity

(Krebs)

Relative

Density

(25/25°C)

* Indicates result outside tolerance limits. Test not Required by AT

PER:

10-Oct-23

DATE

Reviewed By:

Reporting of these results constitutes a testing service only.

Engineering Interpretation or evaluation of the test results is provided only on written request.