



TRANSMITTAL NO. 002

To: Parsons Brinckerhoff
650 Elm Street, 4th Floor
Manchester, NH 03101

Attention: Mr. Adam Stockin, P.E.

Project: Vermont Department of Transportation – Windsor-Hartford IM BPNT (13)

Date: August 2, 2016

WE ARE SENDING:

COPIES	DESCRIPTION	DISPOSITION
1	KTA Submittal Review Letter Monoko, LLC Submittal No. 01b – Revised Quality Control Plan	
	- Revised Quality Control Plan	Recommend Acceptance as Noted
	- Revised Surface Preparation/Painting Plan	Recommend Acceptance
	- Revised Coating System	Recommend Acceptance as Noted

COMMENTS:

Signed

Jeff Towill, Project Manager

360534

Vermont Agency of Transportation

RECEIVED

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

If enclosures are not as noted, kindly notify us at once

KTA-Tator, Inc.

115 Technology Drive
Pittsburgh, PA 15275

412.788.1300
www.kta.com



August 2, 2016
Via e-mail: stockin@pbworld.com

Mr. Adam M. Stockin, P.E.
Parsons Brinckerhoff
650 Elm Street, 4th Floor,
Manchester, NH 03101

**SUBJECT: Vermont Agency of Transportation, Windsor-Hartford,
IM BPNT (13), Bridge Painting of Eleven Bridges, Review of
Revisions for QC Program and Surface Preparation/Painting Plan**

Dear Mr. Stockin:

In accordance with our agreement, KTA-Tator, Inc. (KTA) has reviewed the supplemental revisions for the QC Program and Surface Preparation/Painting Plan submitted by Monoko, LLC for the above referenced project. The submittal was reviewed for compliance with Special Provision Section 39 for the project. The following comments apply to each item as detailed.

Coating System

The revisions related to the coating system addressed items from KTA's initial review and are "Accepted as Noted" per the following comments.

1. Ervin AMASTEEL shot and grit abrasive manufactured by Ervin Industries and meeting SSPC-AB 3 was proposed for use. The information did not include specific shot/grit size, however, it should be noted that Section 39(f) refers only to steel grit for recyclable steel abrasives (i.e. steel shot is not included).
2. A written endorsement from Sherwin-Williams was provided for compatibility of the coating system with Chlor*Rid soluble salt remover. A similar endorsement should be provided for Hold Tight if this product is also to be used (as it is mentioned in the QC Plan).

QC Plan

Special Provision Section 39(b) details the requirements for the QC Program. The revisions related to the QC Plan addressed the items from KTA's initial review and are "Accepted as Noted" per the following comment.

Vermont Agency of Transportation
RECEIVED
CK'D BY KTA OK'D BY Mark Sargent
August 2, 2016
RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

KTA-Tator, Inc.

115 Technology Drive
Pittsburgh, PA 15275

412.788.1300
www.kta.com

1. The SSPC BCI certification for Mr. Magriplis should be reviewed by VTrans to determine if it meets the specified minimum qualifications of NACE Level 1 for the QC Inspector.

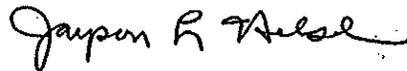
Surface Preparation/Painting Plan

Special Provision Section 39(d) details the requirements for the Surface Preparation/Painting Plan. The revisions related to the Painting Plan addressed the items from KTA's initial review and are "Accepted."

If you have any questions or need additional information, please do not hesitate to contact me at (412) 788-1300, extension 216, or by e-mail at jhelsel@kta.com.

Sincerely,

KTA-TATOR, INC.



Jayson L. Helsel, P.E.
Senior Consultant

JLH:JDM:am
360534

cc: Jeff Towill – KTA

NOTICE: This report represents the opinion of KTA-TATOR, INC. This report is issued in conformance with generally acceptable industry practices. While customary precautions were taken to insure that the information gathered and presented is accurate, complete and technically correct, it is based on the information, data, time, materials, and/or samples afforded. This report should not be reproduced except in full.

Vermont Agency of Transportation
RECEIVED
BY SPMT (03) Submittal (03) Revised QC Plan (03) 10-10-10
 CK'D BY KTA OK'D BY Mark Sargent
 August 2, 2016
 RESUBMIT NO Approved **AsNoted**
 BY Mark Sargent DATE 08/02/2016

MONOKO, LLC

1037 Peninsula Avenue
Tarpon Springs, FL 34689-2125
E-mail Address: MonokoLLC@aol.com

(727) 940-3244
(727) 279-8795 Fax

Submittal No.: 01b: Quality Control Plan, Revised

Date: July 27, 2016

Vermont Department of Transportation
Southeast Regional Construction Office
Attn: Ann Gammell, P.E., Regional Construction Engineer
PO Box 1873; 61 Depot Street
Wilder, VT 05088-1873
(802) 522-5719; (802) 281-5000; (802) 281-5002 fax
Ann.Gammell@Vermont.gov

Description: Proposal/Contract Number: Windsor-Hartford IM BPNT (13)
Letting Date: 10/09/15; Award Date: 11/02/15
Project Description: Bridge Painting of Eleven Bridges
In the Towns of Windsor & Hartford, Windsor County, VT
Contract Amount: \$8,671,323.00; Completion Date: 10/12/18

Contractor: **MONOKO, LLC**

Reviewed & Approved By: *Keri Monokandilos*
Keri Monokandilos, Manager

Date: 07/27/2016

Engineer: Paul Perry IV, Resident Engineer
PO Box 1873; 61 Depot Street
Wilder, VT 05088-1873
802-498-8255 cell; 802-281-5000 office; 802-281-5002 fax
paul.perry@vermont.gov
mark.sargent@vermont.gov
pmcdonald@gpinet.com
ann.gammell@vermont.gov

Revision:

Vermont Agency of Transportation
RECEIVED
IM BPNT (13) Submittal (13) Revised (03) Plan (12) 16 AN/JPJ
CK'D BY KTA OK'D BY Mark Sargent
August 2, 2016
RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

Table of Contents for Quality Control Plan Additional Information

Special provisions require the following items:

1. Abrasives meet the requirements of SSPC-AB 3; Abrasive Safety Data Sheets
2. Type A Certification of Chlo-rid will be provided upon the purchase of the same
- 2a. Letter from Manufacturer that chloride is compatible with the coating system
3. Coating Manufacturer letter indicating length of time for curing period

QC Plan:

1. Assignment of NACE Level 1 QC
2. Procedures for improving surface preparation

Surface Preparation/Painting Plan

1. Equipment to be used
2. Coating application method
3. Additional coat of intermediate paint 20 feet from abutements....



Monoko LLC
1037 Peninsula Avenue
Tarpon Springs, FL 34689

Painting Plan

for

Vermont Department of Transportation

1. Foreman to go to site to determine the placement of the equipment for the project. Equipment to be used for sand blasting will be a ARS recycle unit, ARS 45000 cfm dust collector, and 1600 air compressor. Painting shall be done with air less spray pumps and striping method by brush.
2. Foreman, Quality Control Inspector and Competent Person all are to review project specifications and all plans and drawings for this project. Sign off on all specification distribution forms.
3. Mobilize the equipment and put into place per the foreman's directions.
4. Foreman and small crew to start setting up equipment
5. Rig SSPC Guide 6, Class 1A containment per Engineering Drawings.
- 5a. Degrease by scraping and low pressure wash with hot water.
6. Set up all lines into the containment.
7. Start all equipment
9. Run an air flow check of the containment.
10. Test blast.
11. Inspect test blast.
12. Vacuumers enter blast containment no more than 1 hour after blast begins to vacuum steel grit and paint waste into the recycler.
13. Conduct worker exposure monitoring.
14. The Competent Person to conduct visible emission monitoring.
15. The blast will meet SSPC SP-10 with an anchor profile of 1.5-3.5 mils.
16. After blast, allow QC Inspector to conduct Hold Point Inspection.
17. Once are has been accepted, conduct a complete blow down of the steel
- 18. Apply Sherwin-Williams Zinc Clad III HS as the primer. Mix under the supervision of the QC Inspector. Apply 5.0 to 8.0 wet film to achieve a 3.0 to 5.0 dry film thickness.**
19. QC Inspector to conduct Hold Point inspection to verify dry, film thickness of prime coat.
- 19a Apply a stripe coat using primer coat of the Sherwin-Williams Zinc Clad III HS .**
21. QC Inspector to conduct a Hold Point Inspection of the 1st stripe coat,
- 20. Apply a stripe coat using intermediate coat of the Sherwin-Williams Macropoxy 646.**
21. QC Inspector to conduct a Hold Point Inspection of the 2nd stripe coat,
- 22. Apply a full intermediate coat of the Sherwin-Williams Macropoxy 646 Apply 5.0 to 8.0 mils wet to achieve 3.0 to 50 mils dry.**
23. QC Inspector to conduct a Hold Point Inspection of the intermediate coat
- 23a. Apply a 2nd intermediate coat of the Sherwin-Williams Macropoxy 646 Apply 5.0 to 8.0 mils wet to achieve 3.0 to 5 mils dry to 20 feet from both Beam ends only .**
- 23b. QC Inspector to conduct a Hold Point Inspection of the 2nd intermediate coat (20ft from beam ends)
- 23c. Apply a 3rd stripe coat using finish coat of the Sherwin-Williams Acrolon 218 HS**
- 23d. QC Inspector to conduct a Hold Point Inspection of the 3rd stripe coat
- 24. Apply a full coat of the finish coat of the Sherwin-Williams Acrolon 218 HS Apply 5.0 to 8.0 mils wet to achieve 3.0 to 5.0 mils dry film thickness May apply up to 7 mils dry per Manufacturer's PDS**
25. QC inspector to conduct a Hold Point Inspection of the finish coat.
26. After all blasting and painting has been completed, remove all containment materials.
27. Vacuum waste as materials are being removed.
28. Once the containments have been removed, the equipment can be removed from the site,
29. Competent Person and foreman to conduct a walk-through of work areas to verify site cleanliness.

- Notes: 1. Mix all coatings under the supervision of the QC Inspector, unless authorized to mix without be observed.
2. Reference project Quality Control Manual which also contains the product data sheets and material safety data sheets.
3. Reference containment drawings.

Vermont Agency of Transportation
RECEIVED

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

Supplemental Revisions

In the event that surface preparations or painting quality do not meet contract specifications during quality control inspections. Monoko LLC will proceed with the following:

The QC will mark areas of deficiencies during sand blasting operation (spots or darker mill scale areas). Show the individual sand blaster areas that his is deficient in and re-blast those areas until the blasted area meets the specifications.

If profile readings are above the specification, the QC will lower the pressure on compressor and re-test a new pattern. Also QC may require the blaster to stand a 6” further from the area he is blasting.

If salt test failed the first step is to re-blast area. If salts are still to high, whip and rinse area with Chlo-rid DTS then re-blast.

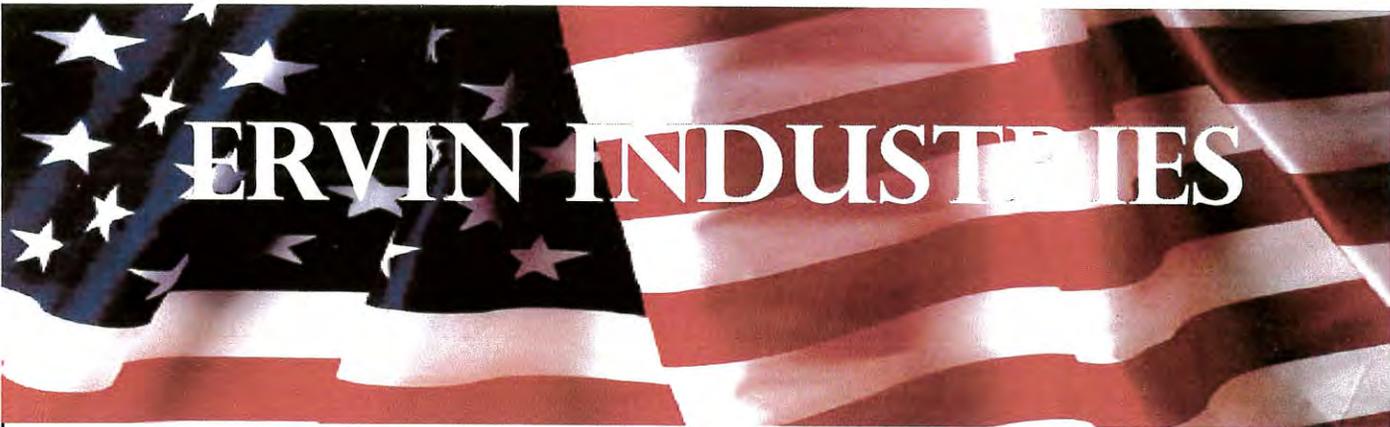
Painting inspection will be done according to PA 2 method. Each painter will paint his own designated area. The QC will not only check for proper millage, but for other imperfection (runs, sags, or holidays)

Improving the surface preparation and painting quality as a result to quality control findings: Monoko, LLC has a craft work assessment done on each of its painters. This assessment covers good blasting and painting practice with accordance of the contract specifications. This also allows the QC and Forman to evaluate each works performance. The information gathered will be used as a tool for continuing education and training. In some case retraining may be required.

Vermont Agency of Transportation
RECEIVED
STATE OF VERMONT - 10/15/15

CK'D BY KTA **OK'D BY** Mark Sargent
August 2, 2016

RESUBMIT NO **Approved AsNoted**
BY Mark Sargent **DATE** 08/02/2016



ERVIN INDUSTRIES

AMASTEEL IS QUALITY

WE CERTIFY THAT ERVIN AMASTEEL SHOT AND GRIT IS AN ENGINEERED, MANUFACTURED, CAST STEEL ABRASIVE WHICH MEETS OR EXCEEDS THE REQUIREMENTS OF

S.A.E. J-827
S.A.E. J-444
S.A.E. J-1993

Vermont Agency of Transportation

RECEIVED

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

SPECIFICATIONS FOR SIZE
CHEMISTRY
MICROSTRUCTURE
HARDNESS & SHAPE

ERVIN AMASTEEL SHOT AND GRIT EXCEEDS THE
SSPC AB-3 SPECIFICATION.

ERVIN INDUSTRIES, INC.
3893 RESEARCH PARK DR.
P.O. BOX 1168
ANN ARBOR, MI 48106-1168
PHONE: (800) 748-0055

WWW.ERVININDUSTRIES.COM

ERVIN

FOUNDED 1920

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 3

Revision: 06.09.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **AMASTEEL**

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture *Cast steel*

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Ervin Industries, Inc.
3893 Research Park Drive
Ann Arbor, MI 48108-2217
Phone: (734)-769-4600/Fax: (734)-663-0136
sales@ervinindustries.com
http://www.ervinindustries.com/

1.4 Emergency telephone number: Phone: (734)-769-4600/Fax: (734)-663-0136

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 *Void*

Hazard pictograms *Void*

Signal word *Void*

Hazard statements *Void*

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: *Not applicable.*

vPvB: *Not applicable.*

Vermont Agency of Transportation

RECEIVED

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: *Mixture: consisting of the following components.*

Dangerous components:

CAS: 7440-44-0 EINECS: 231-153-3	carbon substance with a Community workplace exposure limit	0.80 - 1.20%
CAS: 7439-96-5 EINECS: 231-105-1	manganese	0.35 - 1.20%
CAS: 7440-21-3 EINECS: 231-130-8	silicon substance with a Community workplace exposure limit	0.40 - 1.50%
CAS: 7704-34-9 EINECS: 231-722-6	sulfur Skin Irrit. 2, H315	<0.05%
CAS: 7723-14-0 EINECS: 231-768-7	phosphorus Flam. Liq. 2, H225; Flam. Sol. 1, H228; Aquatic Chronic 3, H412	<0.05%

Additional information: *For the wording of the listed risk phrases refer to section 16.*

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: *No special measures required.*

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 2)

— GB —

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 3

Revision: 06.09.2015

Trade name: AMASTEEL

(Contd. of page 1)

After skin contact:*Rinse with warm water.**If skin irritation continues, consult a doctor.***After eye contact:** *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.***After swallowing:***Rinse out mouth and then drink plenty of water.**If symptoms persist consult doctor.***4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.***4.3 Indication of any immediate medical attention and special treatment needed***No further relevant information available.*

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:** *CO2, sand, extinguishing powder. Do not use water.***For safety reasons unsuitable extinguishing agents:** *Water***5.2 Special hazards arising from the substance or mixture***products are non-flammable.**Fine metal dust that is created as a waste stream and/or contaminants that are removed during the blasting process may pose a small risk of fire or explosion.***5.3 Advice for firefighters****Protective equipment:** *No special measures required.*

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures*Scrap and remnants can create slip-and-fall hazards. It is recommended to keep floors and work areas clean at all times.***6.2 Environmental precautions:** *No special measures required.***6.3 Methods and material for containment and cleaning up:** *Pick up mechanically.***6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.*

SECTION 7: Handling and storage

7.1 Precautions for safe handling*Special care must be exercised to prevent product leakage. Exercise extra caution when removing the tension straps that are part of wholesale pallet deliveries.***Information about fire - and explosion protection:** *No special measures required.***7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** *No special requirements.***Information about storage in one common storage facility:** *Not required.***Further information about storage conditions:** *None.***Storage class:** *13***7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: *No further data; see item 7.*

(Contd. on page 3)

— GB —

Vermont Agency of Transportation

RECEIVEDCK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 3

Revision: 06.09.2015

Trade name: **AMASTEEL**

(Contd. of page 2)

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
7440-44-0 carbon	
WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable
7440-21-3 silicon	
WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust

Regulatory information WEL: EH40/2011

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter P2

Protection of hands:

Leather gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection: Safety glasses

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid
Odour: Odourless
Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: 1500 °C (2732 °F) (~2700 °F)
Boiling point/Boiling range: 3000 °C (5432 °F) (~5400 °F)
Flash point: Not applicable.
Flammability (solid, gaseous): Not determined.

Ignition temperature:

Decomposition temperature: Not determined.

Self-igniting:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapour pressure:

Not applicable.

Density at 20 °C (68 °F):

7.8 g/cm³ (65.091 lbs/gal)

Vermont Agency of Transportation

RECEIVED

VERMONT'S Department of Public Safety & Fire

CK'D BY KTA

OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO
BY Mark Sargent

Approved AsNoted
DATE 08/02/2016

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 3

Revision: 06.09.2015

Trade name: AMASTEEL

(Contd. of page 3)

Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Insoluble. Very little danger of rust forming.
Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

Vermont Agency of Transportation

RECEIVED

Vermont Agency of Transportation

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

(Contd. on page 5)

— GB —

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 3

Revision: 06.09.2015

Trade name: AMASTEEL

(Contd. of page 4)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

European waste catalogue

12 01 16* | waste blasting material containing dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Waterhazard class: Generally not hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for changes:

Version 2: 28/05/2015: Section 5.1 extinguishing agents

Version 3: 06/09/2015: Section 1, 15, adaptation to Regulation 453/2015 / EC, 830/2015 / EU, 18/2012 / EU

Relevant phrases

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

Vermont Agency of Transportation
RECEIVED
VERMONT DEPARTMENT OF TRANSPORTATION
 CK'D BY KTA OK'D BY Mark Sargent
 August 2, 2016
 RESUBMIT NO Approved AsNoted
 BY Mark Sargent DATE 08/02/2016

(Contd. on page 6)



Safety data sheet
according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 3

Revision: 06.09.2015

Trade name: AMASTEEL

(Contd. of page 5)

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Sol. 1: Flammable solids, Hazard Category 1
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
Safety data sheet AMASTEEL

— GB —

Vermont Agency of Transportation

RECEIVED

VT SPN7 (13) Submittals Received (QC) Page 6 of 16 AMN.pdf

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved **AsNoted**
BY Mark Sargent DATE 08/02/2016



SHERWIN-WILLIAMS®

Protective & Marine Coatings

The Sherwin-Williams Company
P. O. Box 1266
Holmes Beach, Fl. 34218
Phone: (941) 812-4508
Fax: (941) 251-7608

May 16th, 2016

Mr. Drosso Monokandilos
Monoko LLC
1037 Peninsula Ave
Tarpon Springs, Fl. 34689
(727) 940-3244

Project: Windsor Vermont BF BPNT (16)

Drosso, Sherwin Williams approves the use of Chlorid products with our products when applied per their product data pages. Chlor-Rid is a standard in the industry for chloride protection and is not detrimental to the coating system submitted for the above referenced project. Thank you for your business.

If you need further assistance, please do not hesitate to contact me at (941) 812-4508.

Sincerely,

Todd M. Kreitz

Todd M Kreitz
The Sherwin-Williams Company
Protective & Marine Coatings Sales Representative
NACE Certified Coating Inspector Level 3 –Cert No. #11119
Phone: (941) 812-4508
Fax: (941) 251-7608
E-mail: todd.m.kreitz@sherwin.com

Vermont Agency of Transportation

RECEIVED

CK'D BY KTA OK'D BY Mark Sargent

August 2, 2016

RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016



SHERWIN-WILLIAMS®

Protective & Marine Coatings

The Sherwin-Williams Company
P. O. Box 1266
Holmes Beach, Fl. 34218
Phone: (941) 812-4508
Fax: (941) 251-7608

July 26th, 2016

Mr. Drosso Monokandilos
Monoko LLC
1037 Peninsula Ave
Tarpon Springs, Fl. 34689
(727) 940-3244

Project: Windsor Vermont BF BPNT (16)

Drosso, The Sherwin Williams Products that we have submitted for the above referenced project are: Zinc Clad III, Macropoxy 646 FC Epoxy, and Acrolon 218HS Polyurethane. I am listing the minimum and maximum application temperature guidelines for those products. I have attached the Dry Time curves for your review as well. Minimum application ambient, surface, and material temperature are:

- 1) Zinc Clad III minimum is 35 degrees. Maximum is 120 degrees. Material must be 40 degrees.
- 2) Macropoxy 646 FC Epoxy minimum is 35 degrees. Maximum is 100 degrees. Material must be 40 degrees.
- 3) Acrolon 218HS Polyurethane minimum is 35 degrees. Maximum is 120 degrees. Material must be 40 degrees.

If you need further assistance, please do not hesitate to contact me at (941) 812-4508.

Sincerely,

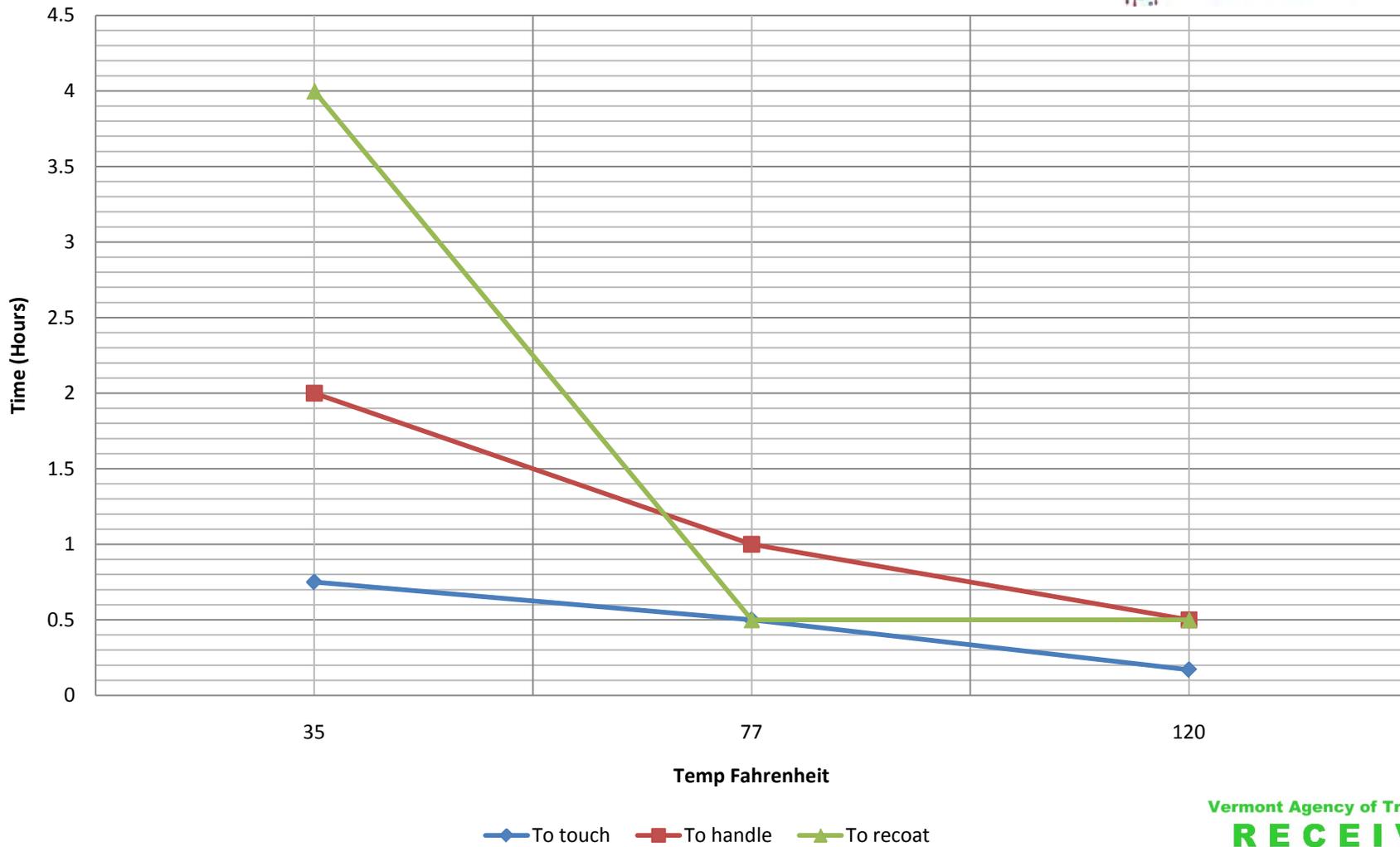
Todd M. Kreitz

Todd M Kreitz
The Sherwin-Williams Company
Protective & Marine Coatings Sales Representative
NACE Certified Coating Inspector Level 3 –Cert No. #11119
Phone: (941) 812-4508
Fax: (941) 251-7608
E-mail: todd.m.kreitz@sherwin.com

Vermont Agency of Transportation
RECEIVED
08/02/2016 10:58:00 AM
CK'D BY KTA OK'D BY Mark Sargent
August 2, 2016
RESUBMIT NO Approved AsNoted
BY Mark Sargent DATE 08/02/2016

Todd Kreitz • Protective & Marine Sales Representative
The Sherwin-Williams Company NACE Certified Coatings Inspector Level 3 – Cert No. #11119
+1 (941) 812-4508 todd.m.kreitz@sherwin.com / www.sherwin-williams.com/protective

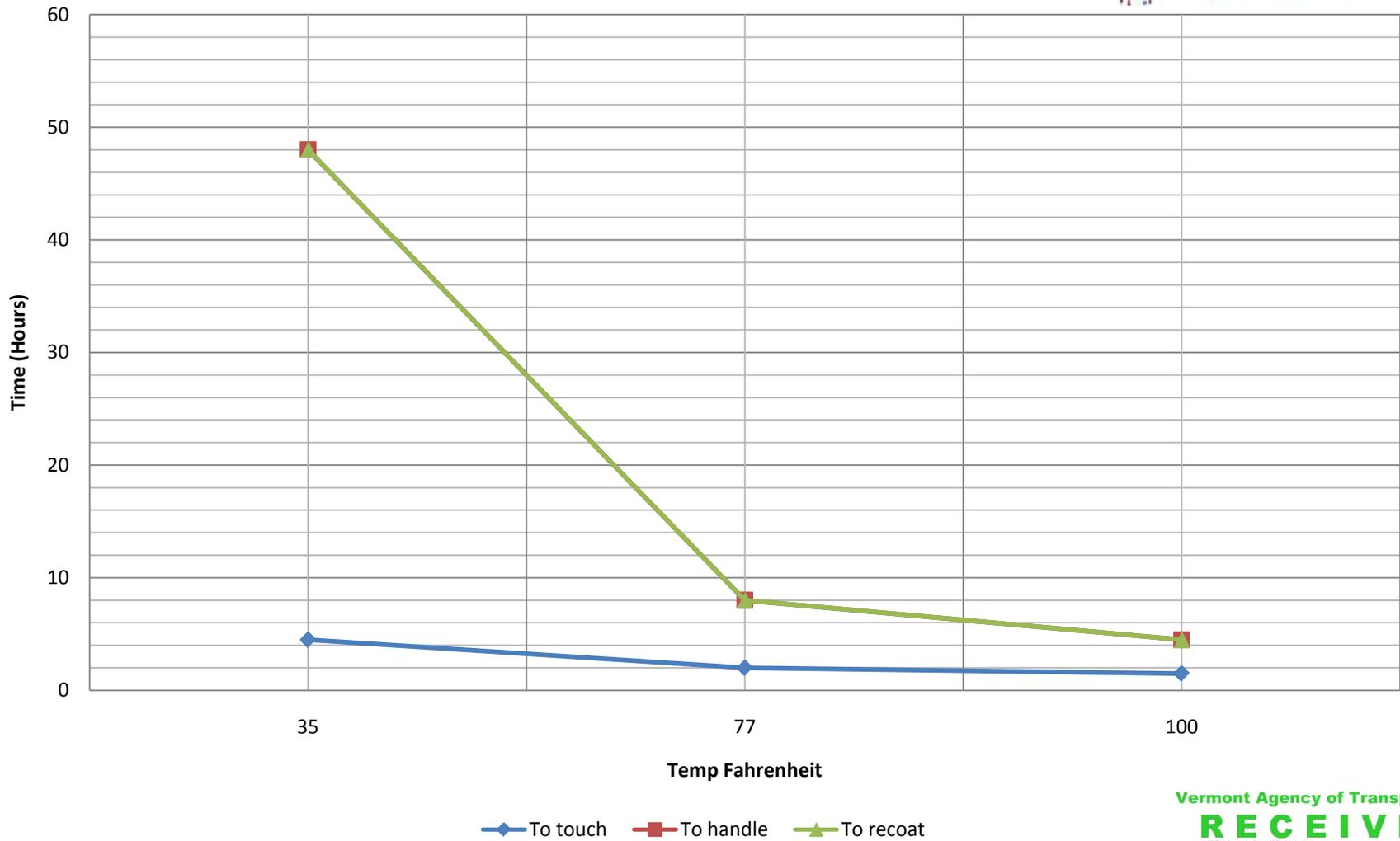
Zinc Clad™ III HS



The above drying schedule is at 5.0 mils wet at 50% relative humidity. Drying time is temperature, humidity, and film thickness dependent. The above information is provided for guideline use only

Vermont Agency of Transportation
RECEIVED
08/02/2016 11:58:00 AM
 CK'D BY KTA OK'D BY Mark Sargent
 August 2, 2016
 RESUBMIT NO Approved AsNoted
 BY Mark Sargent DATE 08/02/2016

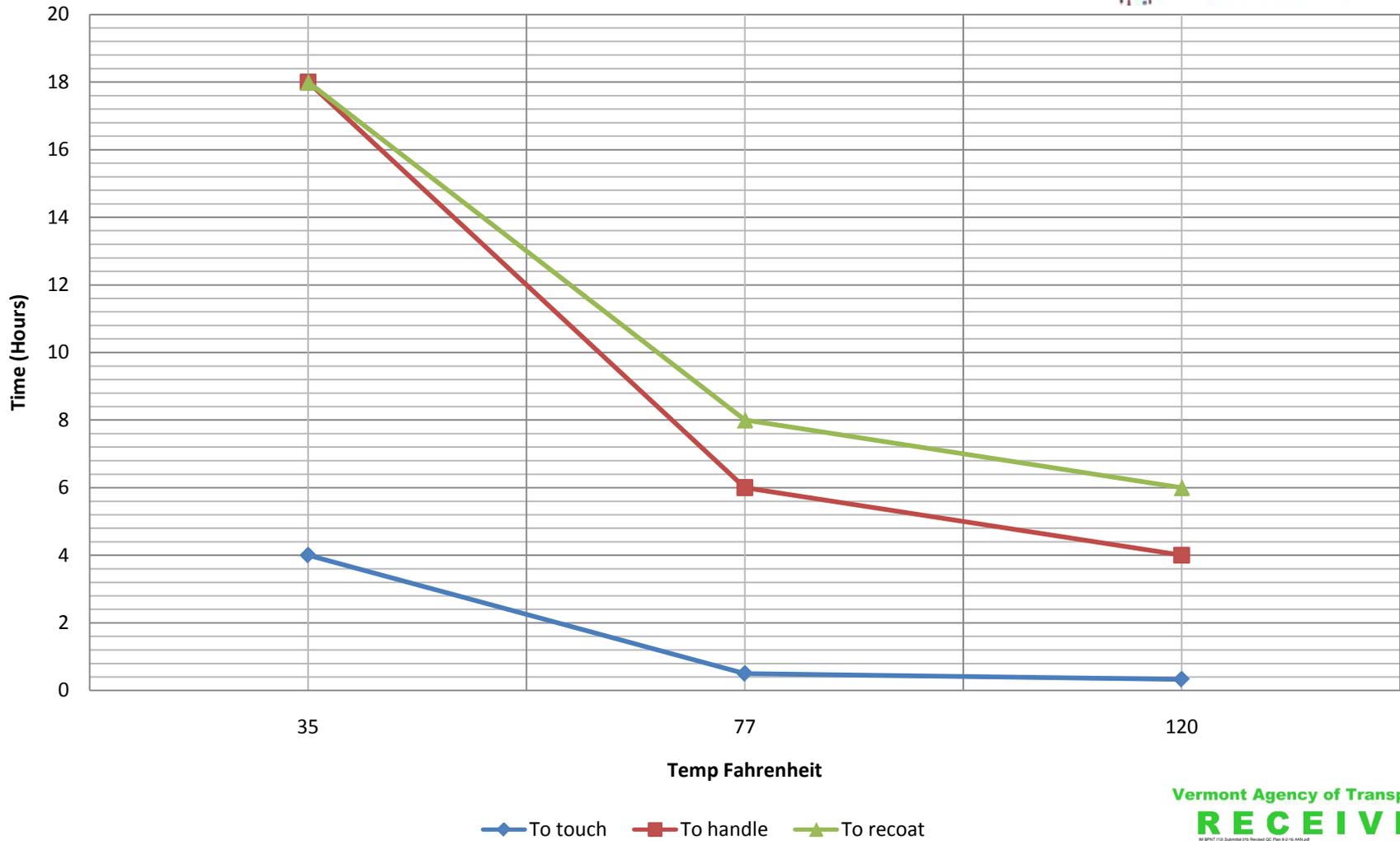
Macropoxy® 646 Fast Cure Epoxy



The above drying schedule is at 7.0 mils wet at 50% relative humidity.
 Drying time is temperature, humidity, and film thickness dependent.
 The above information is provided for guideline use only

Vermont Agency of Transportation
RECEIVED
08/02/2016 11:51:00 AM
 CK'D BY KTA OK'D BY Mark Sargent
 August 2, 2016
 RESUBMIT NO Approved AsNoted
 BY Mark Sargent DATE 08/02/2016

Acrolon™ 218 HS



The above drying schedule is at 6.0 mils wet at 50% relative humidity.
 Drying time is temperature, humidity, and film thickness dependent.
 The above information is provided for guideline use only

Vermont Agency of Transportation
RECEIVED
VT SP-113, September 2014 Revised 02/16/14, AK/epf
 CK'D BY KTA OK'D BY Mark Sargent
 August 2, 2016
 RESUBMIT NO Approved **AsNoted**
 BY Mark Sargent DATE 08/02/2016