Base Load Power Hub (BLPH)

Standard Painting Specification

Document Number: 1723001595-MAT-PRO-00026

Document Class: 3

ROSETTI MARINO

1	NO COMMENTS - APPROVED - WORK MAY PROCEED
2	MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED
3	MAJOR COMMENTS – REJECTED – DO NOT PROCEED
4	APPROVAL NOT REQUIRED

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Sign	Date
Michele Sacchi	21-10-2024

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Table of Contents

SH.	DESCRIPTION	REVISIONS							
		00	01	02	03				
1	Cover	X	X	X	X				
2	Table of Contents	X	X	X	X				
3	Revision / Change Log	X	X	X	X				
4~10	Standard Painting Specification	X	X	X	X				
11~16	Painting Inspection Procedure	X	X	X	X				
17~18	Certificate of Analysis	X	X	X	X				
19~22	Technical Data Sheet	X	X	X	X				

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Revision / Change Log

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00	ISSUE FOR INFORMATION (IFI)
01	ISSUE FOR INFORMATION (IFI)
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STANDARD PAINTING SPECIFICATION

for 72.5 kV 31.5 kA Gas Insulated Switchgear

DOCUMENT NO.	:	1723001595-WAT-PRO-00026
CUSTOMER	:	CrossWind
PROJECT	:	BASE LOAD POWER HUB (BLPH) 66kV SWITCH GEAR (GIS)
DATE OF ISSUE	:	13 Aug, 2024
REVISION NO.	:	Rev. 2

CONTENTS

1. General information 3
2. The main functions of surface treatment 3
3. General considerations of surface treatment 3
4. Applicable standard and regulations 3
5. Applicable Category for painting system 3
6. Pre-treatment method 3
7. Surface treatment and painting specification of components 5
   7.1 Enclosure and cover 5
   7.2 Sheet metal parts 5
   7.3 Support structures and platform 6
   7.4 Additional application 6
8. Inspection of painting thickness 6
9. Other components 6
10. Repair for Coating 7
11. Attachment 7

1. General information

Surface treatment for the switchgear (and components) shall be applied based on the material and environment with paints or coatings.

The components installed outside may receive a huge environmental stress while operation. It should be endured. However, the components installed inside is not strongly influenced by environmental stress from atmospheric changes. Therefore, outdoor application should be considered more than indoor application in terms of environmental influence.

2. The main functions of surface treatment

- Anti-corrosion protection layer : This shall be applied on ferrous products.
- Decorative layer : This shall be applied on paint finishing in order to protect from environmental stresses.

3. General considerations of surface treatment

Excessive painting or coating thickness around edges or holes(1inch or 25 ㎜) should be avoided in terms of protection from damage.

In case that some damages are found while using, repairing work by touch-up can be carried out if necessary after checking conditions on the damaged surface.

4. Applicable standard and regulations

- SSPC — The Society for Protective Coatings
- ISO 12944-1_2017 — Corrosion Protection of Steel Structures by Protective Paint Systems Part 1 : General Information
- ISO 12944-2_2017 — Corrosion Protection of Steel Structures by Protective Paint Systems Part 2 : Classification of environments
- ISO 12944-5_2019 — Corrosion Protection of Steel Structures by Protective Paint Systems Part 5 : Protective Paint System
- ISO 1461_2022 — Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods
- ISO 14713-1_2017 — Zinc coatings - guidelines and recommendations for the protection against corrosion of iron and steel in structure

5. Applicable Category for painting system

The painting system is in compliance with the standard Iso 12944-5 category C3 H

6. Pre-treatment method

Pre-treatment Method based on SSPC is defined as below.

- SSPC - SP 1 — Solvent Cleaning
- SSPC - SP 3 — Power Tools Cleaning
- SSPC - SP 5 — White Metal Blast
- SSPC - SP 6 — Commercial Blast
- SSPC - SP 8 — Pickling (Acid Cleaning)
- SSPC - SP 10 — Near-White Metal Blast Cleaning

– SSPC - SP 16 Brush-Off Blast Cleaning of Coated and Uncoated Galvanized steel, Stainless Steels and Non-Ferrous Metal

SSPC - SP 1

Solvent Cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants from steel surfaces. It is intended that solvent cleaning be used prior to the application or paint and in conjunction with surface preparation methods specified for the removal of rust, mill scale or paint.

SSPC - SP 6

Blast Cleaning with steel grit or ball is a method for removing all visible oil, grease, dust, dirt, mill scale, rust, coatings, oxides, corrosion products and other foreign matter, which makes a near-whiter metal blast cleaned surface when viewed without magnification.

Random staining shall be limited to no more than 33 percent of each unit area of surface, and may consist of light shadows, slight streaks or minor discolorations caused by stains of rust, stains of mill scale or stains of previously applied coating.

SSPC - SP 8

Pickling is a method of preparing steel surfaces by chemical reaction, electrolysis or both. The surfaces when viewed without magnification shall be free of all visible mill scale and rust.

SSPC - SP 10

Blast Cleaning with steel grit or ball is a method for removing all visible oil, grease, dust, dirt, mill scale, rust, coatings, oxides, corrosion products and other foreign matter, which makes a near-whiter metal blast cleaned surface when viewed without magnification.

Random staining shall be limited to no more than 5 percent of each unit area of surface, and may consist of light shadows, slight streaks or minor discolorations caused by stains of rust, stains of mill scale or stains of previously applied coating.

SSPC - SP 16

Blast Cleaning with abrasive is a method for removing all visible oil, grease, dirt, dust, metal oxide(corrosion products) and other foreign matter, which makes a brush-off blast cleaned non-ferrous metal surface when viewed without magnification.

7. Surface treatment and painting specification of components

For the description of the surface treatment for GIS, refer to the following.

7.1 Enclosure and cover

Base material	Pre-treatment	Surface treatment			Color
Aluminum	Degreasing Blasting – SSPC-SP 16	Painting – Primer – Top	 Liquid Liquid	 40 ㎛ 40 ㎛	Munsell No. 5GY 7.5/1 RAL 7032
			Total	**80** ㎛	
Mild steel	Degreasing Blasting – SSPC-SP 10	Painting – Primer – Intermediate – Top	 Liquid Liquid Liquid	 80 ㎛ 40 ㎛ 80 ㎛	Munsell No. 5GY 7.5/1 Munsell No. 5GY 7.5/1 RAL 7032
			Total	**200** ㎛	

NOTE

- To keep the sealing of gas compartment, the machined surface for mild and stainless steel is applied with only primer painting as color "Munsell No. 5GY 7.5/1" after SSPC-SP 1 pre-treatment and for aluminum is not painted.
- The inside of enclosure filled with SF6 gas and not exposed to air is finished according to Hyosung internal standards.

7.2 Sheet metal parts

Grit and Shot profile criteria are different and are not related to SSPC's criteria.
When the profile rating is applied as medium, it is between Segment 2 and 3.
And we are using Grit and Shot, so our standard is defined as 50~100 ㎛.

7.2.1 Mechanism box / duct / plate / accessories

Base material	Pre-treatment	Surface treatment			Color
Mild steel (Powder painting)	Degreasing Pickling Phosphating	Painting – Top	Powder	**120** ㎛	RAL 7032

7.2.2 Local Control Panel (C&P panel)

Base material	Pre-treatment	Surface treatment			Color
Mild steel (Powder painting)	Degreasing Pickling Phosphating	Painting – Top	Powder	**120** ㎛	RAL 7032

7.3 Support structures and platform

7.3.1 Support / Platform / CB base frame

Base material	Pre-treatment	Surface treatment		Color
Mild steel	Degreasing Blasting – SSPC-SP 1 – SSPC-SP 6	Hot dip galvanized – Steel > 6 ㎜	85 ㎛	

NOTE

- Standard coating thickness of galvanizing is in accordance with ISO 1461 - 2009.
- For more details on the case where the thickness of the base material is less than 6mm, please refer to above standard.

7.4 Additional application

In case of operating mechanism, mechanism box(case) is applied with customer's painting specification, however, internal components in the mechanism box are applied with manufacturer's standard painting specification.

Rupture disk and control gear box of earthing switch can be applied with manufacturer's painting specification due to safety issues.

8. Inspection of painting thickness

The Inspection of painting thickness will be carried out according to SSPC-PA2.

For the hot dip galvanizing, inspection will be carried out according to ISO 1461-2009.

9. Other components

Gas barriers and insulation supports will be provided with original color itself. And painting for gas section marks will be performed by contractor after installation as per contractor's practice.

Gas pipes will be provided with yellow color if applicable.

Internal components including parts in the mechanism box are applied with manufacturer's standard painting specification.

10. Repair for Coating

1) Sag / Runs / Curtains
   - Let dry, grind and recoat

2) Overspray / Dry spray
   - Let dry, grind smooth and recoat

3) Orange peel
   - Cosmetic defect; If necessary - grind until smooth surface and recoat

4) Pinholes
   - Grind, open holes and recoat

5) Blistering / Voids
   - Sand down to smooth the surface and repaint

6) Cratering / popping
   - Grind smooth and recoat

7) Fisheyes
   - Solvent wash, grind smooth and recoat

8) Mudcracking
   - Blast-cleaning to Sa 2.5 and recoat in correct DFT

9) Checking/Cracks
   - Grind smooth and recoat

11. Attachment

1. Painting inspection procedure
2. Certificate of Analysis
3. Technical Data Sheet

No. : HS-CB-60-0002

Power Systems PU Painting Inspection Procedure

1. Scope

This procedure is for the painting inspection of parts and products of Power Systems PU.

2. The definition of terms

2.1 TPI(Target Painting Item): The Item shall be Painted.

2.2 Pretreatment: Treatment on the surface to be painted for increase adhesion.

2.3 SR(Surface Roughness): The degree of bump or dent on the surface.

2.4 ST(Surface Temperature): The surface temperature of TPI

2.5 ET(Environment Temperature): The dry bulb temperature of paint work shop

2.6 RH(Relative Humidity): Relative humidity from present temperature of paint work shop

2.7 DPT(Dew Point Temperature): Condensation starting temperature (water vapor→water).

2.8 Visual defect of painting surface

2.8.1 Sagging: Un-uniform surface from excess application of paint (running)

2.8.2 Pinhole/Crack: Opened to previous coating layer or base metal.

2.8.3 Blistering: Blister of the painting surface.

3. Preparation of painting surface

3.1 Conduct pretreatment as per the painting specification.

3.2 In case no specified in painting specification, follow Table 1.

<Table 1 Method of preparation of surface in case no specified>

Material	Parts	Preparation
Steel parts	Sheet metal	SSPC-SP 8 + Phosphate
	Except Sheet metal	SSPC-SP 1 + SSPC-SP10
Non-ferrous metal	Aluminum, Stainless steel	SSPC-SP 1 + SSPC-SP16

SSPC-SP1: Solvent Cleaning

SSPC-SP8: Pickling (Acid cleaning)

SSPC-SP10: Blast cleaning with steel grit/ball (Allow color difference 5% or less)

SSPC-SP16: Blast cleaning with abrasive (non-ferrous)

3.3 Panel product follows “Panel product painting manual (HS-CP-31-0271)

4. Suitable paint working condition

4.1 Appropriate temperature/humidity condition

4.1.1 RH is lower than 80%.

4.1.2 ST(Surface Temperature) of TPI is lower than 43℃

4.1.3 ST(Surface Temperature) of TPI ≥ DPT(Dew Point Temperature)+ 3℃

4.2 Appropriate surface roughness and cleanness

4.2.1 Build suitable roughness on the surface of blasted TPI (Remark Table 2)

<Table 2 Roughness on the surface of TPI after blast cleaning>

Ferrous metal	Non-ferrous metal, stainless steel
50~100㎛	19㎛ and above

* Roughness value means R_{max} value (ISO 8503-1)

* Not applicable for un-blasted items (sheet metal parts)

* Upper limit of surface roughness is not a mandatory (recommendation)

4.2.2 Build suitable cleanness on the surface of TPI

- No oil, grease, lubricant, rust, mill scale on the surface after preparation.

5. Inspection requisition procedure

5.1 Inspection of surface preparation

5.1.1 GIS division: Request to GIS inspection team with form HS-CB-60-0002-3A4.

5.1.2 Transformer (High, Medium/Low) division: Request to Transformer inspection team with form HS-CB-60-0002-2A4.

5.2 Inspection of painting

5.2.1 GIS division: Request to GIS inspection team with form HS-CB-60-0002-3A4.

5.2.2 Transformer (High, Medium/Low) division: Request to Transformer inspection team with form HS-CB-60-0002-2A4.

5.2.3 After repairing of welding, in case the paint rework in needed, request inspection from paint work shop with each form of inspection requisition.

6. Inspection sequence and acceptance criteria

6.1 Sequence of inspection

<Table 3 Inspection stage and point>

Inspection stages	Inspection items	Inspection point	
		Painting shop	HYOSUNG
working condition	As per clause 4.1	O	
Surface preparation	As per clause 4.2	O	
Painting inspection	Curing	O	O
	Painting thickness	O	O
	Visual inspection	O	O

6.2 Acceptance criteria

6.2.1 Working condition and surface preparation condition: Check the whole conditions of environment and TPI are satisfied as per the clause 4.1~4.2.

6.2.3 Painting inspection

6.2.3.1 Curing: Push the painted surface with tip of thumb nail vertical direction toward on paint surface and shall not be deformed or moved.

6.2.3.2 Painting thickness: Use “Spot measurement method from SSPC-PA2 and the detail given in annex 1.

6.2.3.3 No contamination, sagging, pinhole/crack on painted surface and same color with color sample from paint raw material maker or color code book.

Follow “Visual inspection criteria for outer surface of GIS (HS-CB-61-Y629)” for painted items of GIS division.

6.3 Correction of coating thickness according to roughness

6.3.1 In case the coating on blast cleaning surface, adjust coating thickness gage reading with correction value from roughness (Blasted surface only, Remark Table 4).

<Table 4. Correction value table according to roughness – From ISO 8503>

Surface roughness	25㎛≤ X <60㎛	60㎛≤ X <100㎛	100㎛≤ X <150㎛
Correction value	10㎛	25㎛	40

6.3.2 Application Example

① Steel enclosure with blast cleaning

- Roughness: 77㎛ → Correction Value: 25㎛
- Painting thickness: 200㎛ → Final reading: 200-25=175㎛

② Sheet metal ducts with pickling + phosphate

- Roughness: 7㎛ → Correction Value: Not applicable
- Painting thickness: 110㎛ → Final reading: 110-0=110㎛

7. Management of inspected lots

7.1 Accepted items are moved to next step with identification (tags or similar way)

7.2 Non-conformance products are processed as per procedure for non-conformance product treatment (HS-CP-34-0009).

8. Inspection record & storage

8.1 The inspection records shall be written on the form CB-60-0002-1A4 and the storage of records are according to quality record control procedure (HS-CP-14-0013).

8.2 In case the projects related with nuclear power plant, the inspection records shall be written on the form of HS-CB-60-0002-6A4.

9. Reference standards

- SSPC-PA2
- KSM ISO 8503

KCC Corporation
HEAD OFFICE : 344,Sapyeong-daero,Seocho-gu,Seoul,Korea ☎ +82-2-3480-5000(Rep.)/FAX +82-2-3480-5433
ULSAN PLANT : 30,Bangeojinsunhwando-ro,Dong-gu,Ulsan,Korea ☎ +82-52-280-1717(Rep.)/FAX +82-52-288-5146
JEONJU2 PLANT : 764,Gwahak-ro,Bongdong-eup,Wanju_Gun,Jeollabuk-do,Korea ☎ +82-63-260-7000(Rep.)/FAX +82-63-261-5507
ANSEONG PLANT : 100, Je4sandan-ro,Seoun-myeon,Anseong-si,Gyeonggi-do,Korea ☎ +82-31-670-7777(Rep.)/FAX +82-31-670-7799

CERTIFICATE OF ANALYSIS

TO : 공통거래처
ITEM NAME : KOREPOX PRIMER
PRODUCT CODE : AE1161ELB0282 PRODUCT NAME: EP1160(H)-A-5GY7.5/1(HS)
LOT NO. : XC40115054 DATE OF PRODUCTION : 2024-01-15

ITEM	STANDARD	RESULT	METHOD
SPECIFIC GRAVITY	1.28 ~ 1.38	1.33	KCC-7-28-0011
NON VOLATILE	58 ~ 68 %	63.37	KCC-7-28-2723
FINENESS OF GRIND	MAX.40 ㎛	40	KCC-7-28-0012
VISCOSITY	73 ~ 83 KU	73	KCC-7-28-0009
ADHESION	MIN.10 점	10	KCC-7-28-2720

- End of Document -

ISSUED DATE : 2024-03-07

TEST RESULT : PASS

THIS LETTER IS APPROVED BY Q.M MANAGER IN ACCORDANCE WITH COMPUTER DATA CONTROL SYSTEM
THIS IS RESULT GOT BY THE AUTHORIZED METHODS OF KS,ASTM AND

Q.M MANAGER / Ulsan Plant

KCC Corporation
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JEONJU2 PLANT : 764,Gwahak-ro,Bongdong-eup,Wanju_Gun,Jeollabuk-do,Korea ☎ +82-63-260-7000(Rep.)/FAX +82-63-261-5507
ANSEONG PLANT : 100, Je4sandan-ro,Seoun-myeon,Anseong-si,Gyeonggi-do,Korea ☎ +82-31-670-7777(Rep.)/FAX +82-31-670-7799

CERTIFICATE OF ANALYSIS

TO : 공통거래처
ITEM NAME : KORETHAN LEAD FREE (SEMI)
PRODUCT CODE : AU5280ISE0066 PRODUCT NAME: UT6780(H)(S)-RAL7032(HS)
LOT NO. : KC40119040 DATE OF PRODUCTION : 2024-01-24

ITEM	STANDARD	RESULT	METHOD
NON VOLATILE	60.75 ~ 68.75 %	63.36	KCC-7-28-1023
SPECIFIC GRAVITY	1.26 ~ 1.38	1.32	KCC-7-28-0011
VISCOSITY	65 ~ 70 KU	66	KCC-7-28-0009
FINENESS OF GRIND	MAX.35 ㎛	35	KCC-7-20-0012
GLOSS	60 ~ 70 %	65	KCC-7-28-0022
ADHESION	MIN.8 점	10	KCC-7-28-2720

- End of Document -

ISSUED DATE : 2024-03-07

TEST RESULT : PASS

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THIS IS RESULT GOT BY THE AUTHORIZED METHODS OF KS,ASTM AND

Q.M MANAGER / Ulsan Plant

Korepox PrimerEP1160(H)(Two-components) DATA-SHEET

KOREPOX PRIMER EP1160(H) is A two-component, modified polyamide cured epoxy primerwith high content of corrosion inhibiting pigment. It forms a hard andtough film with excellent adhesion property, abrasion resistance and impact resistance. It hasno heavy-metal materials, so can improvement a environment of your work place and meetthe international environmental regulations.

Recommended use	As the primer for use on heavy-industrial equipment, transformer, gas insulated switchgear, tank, container and the general steel appliance, etc.

Physical Properties

Finish and Color	Flat. White, Gray , Red, Ivory Colors are depending on KCC's standard color card, and other colors are available on reguest.
Specific gravity	1.3 ~ 1.5 (Kg/L) according to color.
Solids by volume	Approx. 55~60% (It's depended on color)
Spreading rate (Theoretical)	12㎡/L in 50 micron dry film thickness on a smooth surface.
Flash point	22~32℃/73.4~89.6°F (Closed cup).

Application details

Surface preparation	Remove any rust, dirt, oil and other contaminants from surface to be coated with suitable cleaning method. (Blast Cleaning to Sa 2 ½ or Phosphating treatment) * Iron phosphate series is less resistant to water and corrosion than zinc phosphate series. * Coating film during repair painting thoroughly polish the defective area of the product and dry it thoroughly.
Preceding coat	GALVANY SHOPPRIMER IZ182 or according to specification
Method of application	Air spray application. Nozzle orifice : 1.3 ~ 1.5mm Output pressure : 4 ~ 5Kg/㎠ Number of spray : 3 ~ 5 times (going and coming) (Air spray data are indicative and subject to adjustment.) * Roller or Dipping is not recommendable.
Thinning	* For air spray application, use THINNER No. 024 Adjust the viscosity up to 16~20 sec. in Ford cup No.4 at 20℃/68°F (Thinning rate : 25~35% by volume). But, it may be changed by application condition and environment, etc. * Use well strained paint. * Only use specified THINNER.
Application conditions	The surface must be completely clean and dry. Preferred temperature during application is 15~25℃/59~77°F, and relative humidity is 35 ~ 80%.

	The surface temperature must be at least 3℃(5°F) above dew point to prevent condensation.
Film thickness	Recommended per coat 40 ~ 50 microns dry.
Drying time	dry film thickness: 60microns

panel temperature	5℃/41 F	10℃/50 F	20℃/68 F	30℃/86 F
set to touch	8h	3h	1h	0.5h
dry-hard	16h	7h	4h	4h
repainting interval(minimum)	16h	7h	4h	4h
repainting interval(max)	7d	5d	5d	5d
dry-through	7d	7d	7d	7d

h : hour d : day

* Actual drying time is affected by film thickness, humidity, ventilation, etc.

* forced drying: 80℃(176 F) X 30mins (panel temperture standard)

Recoating interval	At 20℃, minimum: within 5 days after 5 hours (however, within 3 days in hot weather) * When re-coating, clean the foreign matter or defective area or dry it completely before painting.
Heat resistance temperature	Continuous : 120℃/248°F Non-Continuous : 180℃/356°F

Storage and package

Shelf life	12 months
Storage	Store in cool, dry, well-ventilated place. Can of bottom composition should be turned regularly twice a month.
Packing Unit	16ℓ (Base : Curing Agent = 13.7ℓ : 2.3ℓ)
Transportation condition	- Transport in refurbished containers between 5°C~30°C(41°F~86°F) Use air cushions when loading containers

Remarks

Note	Avoid humidity and direct sunlight. Mix thoroughly prior to application. Keep containers closed when not in use. Keep away from sparks and open flames. Avoid prolonged breathing of solvent vapors and contact with skin and eyes. In case of eyes contact, flush immediately with plenty of water for at least 15 minutes. Use with adequate ventilation. Respiratory protection is recommended when spraying this material in confined space or stagnant air.
1'st issue	2013-06-01
Revision	2020-11-10

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

High-solids urethane coating UT6780(H)" is a two-component coating material primarily composed of acrylic polyurethane resin. It is a product that does not contain heavy metals. Additionally, it boasts excellent properties such as gloss and color retention, chemical resistance, durability, and weather resistance. It is an ideal coating for applications in the electrical and electronic industries, such as transformers, as it is a non-yellowing type of acrylic polyol product.

Recommended use	1. heavy electricity such as transformers, high-voltage breakers, rotors, etc 2. Industrial top coat of general steel, steel frame, steel plate, etc

Physical Properties

Finish and Color	Gloss, Semigloss, Flat Colors are depending on KCC's standard color card, and other colors are available on reguest except for yellowish, redish, orangish color.
Specific gravity	Approx. 0.9 ~ 1.3 (㎏/ℓ).
Solids by volume	Approx. 43 ~ 48% It's depended on color
Spreading rate (Theoretical)	11 ~ 13 ㎡/ℓ in 40 microns dry film thickness on a smooth surface
Flash point	23℃ ~ 32℃/ 73°F ~ 89°F (Closed cup)
Viscosity	Approx. 60~70 KU (25℃ / 77°F)

Application details

Surface preparation	Remove any rust, dirt, oil and other contaminants from surface to be coated with suitable cleaning method. (Blast Cleaning to Sa 2 ½ or Phosphating treatment) * For new work : Remove any dust, oil , grease and other impurities from the surface to be coated and allow to dry completely.
Preceding coat	According to EP1160(H), UP195, or painting specifications
Method of application	Air spray application. Nozzle orifice : 1.3 ~ 1.5mm Output pressure : 4 ~ 5Kg/㎠ Number of spray : 2 ~ 3 times (going and coming) (Air spray data are indicative and subject to adjustment.) * Roller or Dipping, Brush, Airless spray, electrostatic coating is not recommendable.
Thinning	037U, 0278(HD), ZY0404(HCE)(For electrostatic use) * Dilution Viscosity : 16~20 sec (20℃/ 68°F)/ Ford Cup No. 4 (When using air spray) * Dilutiob : 5~10% (Volume ratio) * Do not dilute components separately, only the mixture. * Adjust the thinner ratio accordingly based on working conditions, painting environment, temperature of the coating material, size, and shape of the object. * Only use specified THINNER..

Application conditions	In order to prevent condensation of moisture, the surface temperature of the substrate should be at least 3℃ higher than the dew point, and the temperature of the substrate suitable for painting is 15-25℃, and the relative humidity is 35~80% The surface must be clean, free from moisture, and avoid painting on wet days.
Film thickness	dry film thickness 35~45㎛
Drying time	Dry time(20℃ / 68°F standard) set to touch : 30 mins Dry hard : 10 hrs Dry-through : 7 days *forced drying: 80℃(176F) X 30mins (panel temperture standard)
Pot life	8hrs (20℃/ 68°F standard)

Storage and package

Shelf life	12 months
Storage	Due to the possibility of deterioration over time, store the product in a cool, well-ventilated place without direct sunlight or open flames at room temperature (5-35°C). Please use within the storage period.
Packing Unit	16L (PTA (UT6780(H)) : PTB(2958(RT)C.A) = 12.8L : 3.2L) 4L (PTA (UT6780(H)) : PTB(2958(RT)C.A) = 3.2L : 0.8L)
Transportation condition	- Transport in refurbished containers between 5°C~30°C(41°F~86°F) Use air cushions when loading containers

Remarks

Handling Precautions	1. Avoid humidity and direct sunlight. 2. Mix thoroughly prior to application. 3. Keep containers closed when not in use. 4. Keep away from sparks and open flames. 5. Avoid prolonged breathing of solvent vapors and contact with skin and eyes. 6. In case of eyes contact, flush immediately with plenty of water for at least 15 minutes. 7. Use with adequate ventilation. 8. Respiratory protection is recommended when spraying this material in confined space or stagnant air.
Note	
1'st issue	
Revision	2016-05-24

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