

C:\Documents and Settings\powered\My Documents\Autodesk\Drawings\Traffic Engineering\SPECs\Painting Spec.dwg, 8/24/2007 2:43:49 PM, Adobe PDF

SIGNAL POLE PAINT SPECIFICATION, NEW STEEL

ITEM 632 COMBINATION SIGNAL SUPPORT, TYPE - 81.20, BY DESIGN - ARM AS PER PLAN

THIS ITEM SHALL BE AS PER 632.14 AND 732.11 EXCEPT THE POLE, MAST ARMS AND BASE SHALL BE STEEL AND SHALL HAVE A 'MATTE' BLACK FINISH. THE ITEM SHALL BE TREATED AND PAINTED BLACK BY THE MANUFACTURER AS DESCRIBED BELOW:

PAINTING SHALL BE A FOUR PART PROCESS TO INCLUDE SURFACE PREPARATION FOLLOWED BY A THREE-STEP COATING SYSTEM. THIS THREE-STEP COATING SYSTEM SHALL CONSIST OF AN EPOXY-PRIME COAT, AN EPOXY INTERMEDIATE COAT AND A URETHANE TOP COAT. ALL THREE COATS SHALL BE MANUFACTURED BY THE SAME COMPANY TO INSURE COMPATIBILITY AMONG COATS. THE PURPOSE OF THIS COATING IS TO PROVIDE PROTECTION FOR NEW UNWEATHERED, GALVANIZED STEEL FROM CORROSIVE ELEMENTS IN THE ATMOSPHERE. COATING AND SURFACE PREPARATION OF NEW GALVANIZED SUPPORT SECTIONS SHALL BE THE RESPONSIBILITY OF THE SUPPORT MANUFACTURER. FIELD PAINTING IS NOT PERMITTED.

NEW, UNWEATHERED GALVANIZED SUPPORTS SHALL BE PREPARED FOR COATING BY SSPC (STEEL STRUCTURES PAINTING COUNCIL) - SP1 FOLLOWED BY SSPC - SP7 (SOLVENT CLEANING FOLLOWED BY BRUSH BLASTING)

IMMEDIATELY FOLLOWING THE ABOVE TREATMENT, THE PRIME COAT SHALL BE APPLIED. THE PRIME COAT SHALL DEFINITELY BE APPLIED THE SAME DAY AS THE SURFACE IS TREATED. THE PRIME COAT SHALL BE A POLYAMIDE-CURED EPOXY AS LISTED BELOW OR AN APPROVED EQUAL:

AMERON: AMERCOAT 71  
A: GLID-GUARD EPOXY CHROMATE METAL PRIMER  
PORTER PAINTS: MCR 4300  
POLY-CARB: MARK-60 (ULTRAPOX)  
SHERWIN WILLIAMS TILE-CLAD II HI-BILD PRIMER

THE PRIME COAT SHALL BE APPLIED FOLLOWING ALL OF THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS INVOLVING APPLICATION AND FINAL THICKNESS.

AT LEAST 24 HOURS, BUT NO MORE THAN THREE (3) DAYS AFTER THE APPLICATION OF THE PRIME COAT, THE INTERMEDIATE COAT SHALL BE APPLIED. THE INTERMEDIATE COAT SHALL BE A POLYAMIDE-CURED EPOXY AS LISTED BELOW OR AN APPROVED EQUAL:

AMERON: AMERLOCK 400  
A: GLID-GUARD EPOXY CHEMICAL RESISTANT FINISH NO. 5240 SERIES  
PORTER PAINTS: MCR 4300  
POLY-CARB: MARK-60 (ULTRAPOX)  
SHERWIN WILLIAMS HI-SOLIDS CATALYZED EPOXY

THE INTERMEDIATE COAT SHALL BE APPLIED FOLLOWING ALL OF THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS INVOLVING APPLICATION AND FINAL THICKNESS.

AT LEAST 24 HOURS, BUT NO MORE THAN THREE (3) DAYS AFTER THE APPLICATION OF THE INTERMEDIATE COAT, THE TOP COAT SHALL BE APPLIED. THE TOP COAT SHALL BE A ALIPHATIC POLYURETHANE AS LISTED BELOW OR AN APPROVED EQUAL:

AMERON: AMERCOAT 450 GL  
A: GLID-THANE ONE ALIPHATIC POLYURETHANE COATINGS NO. 6100 SERIES  
PORTER PAINTS: HYPERTHANE SUPER  
POLY-CARB: MARK-73 (ULTRA-KOTE)  
SHERWIN WILLIAMS HI-BILD ALIPHATIC POLYURETHANE ENAMEL

THE TOP COAT SHALL BE APPLIED FOLLOWING ALL OF THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS INVOLVING APPLICATION AND FINAL THICKNESS.

THE PRIME, INTERMEDIATE AND TOP COATS SHALL BE APPROPRIATE COLORS TO PRODUCE AN END RESULT THAT IS A 'MATTE' BLACK FINISH.

ALL FINISH PAINTED POLES SHALL BE SHIPPED IN A MANNER TO MINIMIZE DAMAGE IN TRANSIT. POLE SURFACES WILL BE PROTECTED BY FOAM PADDING, BY CARDBOARD WRAPPING, BY SPIRAL WRAPPING WITH WAXED PAPER, BY CRATING, OR BY A COMBINATION OF THESE. THE METHOD USED SHALL BE SELECTED BY THE SUPPORT MANUFACTURER AS MOST APPROPRIATE FOR THE PROJECT BASED ON POLE SIZES, QUANTITIES, CONFIGURATIONS AND METHOD OF TRANSPORTATION.

ITEM 514 - FIELD PAINTING EXISTING STEEL, AS PER PLAN

IN ADDITION TO THE PROVISION OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED FOR PAINTING TRAFFIC SIGNAL POLE, MAST ARM AND PEDESTRIAN POLE.

THE CONTRACTOR SHALL, WHILE MAINTAINING THE SIGNAL FUNCTION, CAREFULLY REMOVE ALL SIGNAL HEADS, REGULATORY, WARNING AND INFORMATIONAL SIGNS THEIR ATTACHMENT FROM SIGNAL POLE, MAST ARM AND PEDESTRIAN POLE FOR STORAGE AND REATTACHMENT AFTER PAINTINGS. THE CONTRACTOR SHALL THOROUGHLY CLEAN THE STEEL SURFACE OF ANY RUST, MOISTURE OR FROST AND FLAKES OF OLD PAINT. ALL CLEANED SURFACE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE STARTING ANY PAINTING OF SIGNAL POLE, MAST ARM AND PEDESTRIAN POLE.

THE CONTRACTOR SHALL PROVIDE AND APPLY TWO COATS OF APPROVED PAINT. THE PRIMER SHALL BE PROD. NO. 925-211 GRAY PRIMER AND THE FINISH COAT SHALL BE PROD NO. 872-02 QUICK DRY SATIN BLACK AS MANUFACTURED BY AKRON PAINT AND VARNISH COMPANY, 1450 FIRESTONE PARKWAY, AKRON, OHIO 44301.

PAYMENT FOR ALL PAINTINGS, SURFACE PREPARATION INCLUDING ALL LABOR, TOOLS AND EQUIPMENT SHALL BE MADE AT UNIT PRICE BID PER LUMP SUM OF FIELD PAINTING EXISTING STEEL (SIGNAL POLE, MAST ARM AND PEDESTRIAN POLE) COMPLETE AND ACCEPTED.

	CITY OF AKRON DEPARTMENT OF PUBLIC SAFETY/SERVICE TRAFFIC ENGINEERING DIVISION	CITY OF AKRON TYPICALS	TRAFFIC SIGNAL POLE PAINT SPECIFICATION	SPECIFICATIONS AMENDED	REVISIONS	08-07	REDRAWN RAC	CHECKED NKS	DATE 08-2007
				SCALE:	DATE				