

**COATING STRUCTURAL STEEL**

LIMITATIONS OF OPERATIONS

NO SANDBLASTING OPERATIONS OR STEEL COATING OPERATIONS SHALL BE PERFORMED DURING THE PERIOD BEGINNING NOVEMBER 1ST AND ENDING MARCH 31ST.

NO NIGHTTIME OPERATIONS WILL BE PERMITTED.

THE APPLICATION OF ALL THREE COATS TO AN AREA SHALL IN ALL CASES BE COMPLETED DURING THE SAME CONSTRUCTION SEASON. AREAS WHICH DO NOT RECEIVE ALL THREE COATS DURING THE SAME CONSTRUCTION SEASON SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RESANDBLASTED AND RECOATED AT THE CONTRACTOR'S EXPENSE.

PAINTING OF AN AREA SHALL NOT BEGIN UNTIL ALL STEEL RETROFIT WORK HAS BEEN COMPLETED IN THAT AREA.

SAFETY PRECAUTIONS

THE COATING MATERIALS SPECIFIED ON THIS PROJECT CAN BE HAZARDOUS TO THE HEALTH OF THE APPLICATOR IF NOT APPLIED AS PER MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS CONTAINED ON THE MATERIAL SAFETY DATA SHEET, PRODUCT DATA SHEET AND THE LABEL ON THE PAINT CONTAINERS. THESE PRECAUTIONS SHALL INCLUDE THE USE OF RESPIRATORS AND EYE AND SKIN PROTECTION AS SPECIFIED.

POLLUTION CONTROL

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO COMPLY WITH POLLUTION CONTROL LAWS, RULES OR REGULATIONS OF FEDERAL, STATE OR LOCAL AGENCIES.

IN ADDITION, THE ENGINEER SHALL HAVE THE CONTRACTOR CEASE OPERATIONS IF THE WIND OR OTHER CONDITIONS ARE SUCH THAT THE SURROUNDING ENVIRONMENT IS BEING DETRIMENTALLY AFFECTED DUE TO THE WORK.

AREAS TO BE COATED

ALL EXISTING STRUCTURAL STEEL SURFACES OF THE BRIDGE SHALL BE CLEANED AND COATED. ALL DRAINAGE CONDUCTORS AND DOWNSPOUTS THAT ARE ATTACHED TO PIERS, ABUTMENTS, OR OTHER PARTS OF THE BRIDGE SHALL ALSO BE INCLUDED FOR COATING.

ALUMINUM RAILING SHALL NOT BE PAINTED.

MATERIALS

ALL THREE COATS AS WELL AS THINNER USED SHALL BE MANUFACTURED BY THE SAME COMPANY TO INSURE COMPATIBILITY OF COATS.

APPLICATION

ALL COATS SHALL BE APPLIED BY BRUSH OR AIRLESS SPRAY.

THICKNESS OF COATS

THE TOTAL DRY FILM THICKNESS OF THE VARIOUS COATS SHALL NOT BE LESS THAN AS NOTED UNDER THE SPECIAL PAY ITEM FOR EACH COAT. DRY FILM THICKNESS READINGS SHALL BE MADE AFTER EACH COAT. A TOOKE GAUGE SHALL BE USED TO MAKE THE DRY FILM THICKNESS READINGS. TOOKE GAUGE READINGS SHALL BE MADE BY THE ENGINEER. MEASUREMENTS SHALL BE TAKEN AT ENOUGH VARIED LOCATIONS SO AS TO BE REPRESENTATIVE OF THE DRY FILM THICKNESS OF EACH COAT OVER THE ENTIRE BRIDGE.

COATING SYSTEM

THE COATING SYSTEM SHALL CONSIST OF A URETHANE PRIME COAT, AN EPOXY INTERMEDIATE COAT, AND A URETHANE TOP COAT.

THE COATING MATERIALS USED SHALL BE THOSE AS LISTED FROM ONE OF THE FOLLOWING MANUFACTURERS:

- 1) GLIDDEN COATINGS AND RESINS  
14979 BAGLEY RD.  
MIDDLEBURG HEIGHTS, OHIO 44130  
TELEPHONE: (216) 845-4646

PRIME COAT: GLID-THANE ONE MOISTURE CURED URETHANE PRIMER NO. 6120

INTERMEDIATE COAT: GLID-GUARD EPOXY CHEMICAL RESISTANT FINISH NO. 5240 SERIES

TOP COAT: GLID-THANE TWO ACRYLIC POLYURETHANE COATING NO. 6200 SERIES

- 2) POLY CARB  
33095 BAINBRIDGE RD.  
SOLON, OHIO 44139  
TELEPHONE: (216) 248-1223

PRIME COAT: ULTRA-PRIME MARK 56  
INTERMEDIATE COAT: ULTRA-POX MARK 60  
TOP COAT: ULTRA-KOTE MARK 73

- 3) TNEPEC COMPANY INC.  
P. O. BOX 1749  
KANSAS CITY, MISSOURI 64141  
LOCAL TELEPHONE CONTACT:  
(216) 881-7181

PRIME COAT: 50-330 POLY-URA-PRIME  
INTERMEDIATE COAT: SERIES 66 HI-BUILD EPOXOLINE  
TOP COAT: SERIES 70 ENDURA-SHIELD

ITEM SPECIAL - COATING EXISTING STEEL (URETHANE PRIME COAT)

SECTION 514.03 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS ITEM.

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE COAT OF URETHANE TO ALL STEEL ELEMENTS OF THE BRIDGE. THE COLOR OF THE PRIME COAT SHALL OBVIOUSLY CONTRAST WITH THE NEAR-WHITE BLASTED STEEL. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN THREE (3.0) MILS. IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED MIL THICKNESS THAT COST SHALL BE BORNE BY THE CONTRACTOR.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT IS LESS THAN THE SPECIFIED THREE (3.0) MILS BUT IS AT LEAST TWO AND ONE-HALF MILS, THE CONTRACT PRICE FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 16 2/3%. IF THE DEFICIENCY OF COATING IS MORE THAN 16 2/3% (I.E. THE AVERAGE DRY FILM THICKNESS IS LESS THAN TWO AND ONE-HALF MILS) THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL.

FHWA REGION	STATE	PROJECT	
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LAKE COUNTY  
LAK-528-192

PLAN NO. BR-18-87

THE PRIME COAT SHALL BE APPLIED THE SAME DAY THAT THE STEEL IS BLAST CLEANED.

A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR AT LEAST THE FIRST DAY THAT THIS COATING IS APPLIED.

THE COST OF THE MANUFACTURER'S REPRESENTATIVE, MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS ITEM OF WORK SHALL BE INCLUDED IN THE PRICE BID.

ITEM SPECIAL - COATING EXISTING STEEL (EPOXY INTERMEDIATE COAT)

SECTION 514.03 OF THE OHIO DEPARTMENT OF TRANSPORTATION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS ITEM.

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE COAT OF EPOXY TO ALL STEEL ELEMENTS OF THE BRIDGE. THE COLOR OF THIS COAT SHALL BE WHITE. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN SIX (6.0) MILS. IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED MIL THICKNESS THAT COST SHALL BE BORNE BY THE CONTRACTOR.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT IS LESS THAN THE SPECIFIED SIX (6.0) MILS BUT IS AT LEAST FIVE MILS, THE CONTRACT PRICE BID FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 16 2/3%. IF THE DEFICIENCY OF COATING IS MORE THAN 16 2/3% (I.E. THE AVERAGE DRY FILM THICKNESS IS LESS THAN FIVE MILS) THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL.

AT LEAST 24 HOURS BUT NO MORE THAN FIVE DAYS SHALL ELAPSE AFTER THE APPLICATION OF THE PRIME COAT AND BEFORE THE APPLICATION OF THE INTERMEDIATE COAT. SURFACES SHALL IN ALL CASES BE CLEAN BEFORE THE INTERMEDIATE COAT IS APPLIED.

A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR AT LEAST THE FIRST DAY THAT THIS COATING IS APPLIED.

THE COST OF THE MANUFACTURER'S REPRESENTATIVE, MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS ITEM OF WORK SHALL BE INCLUDED IN THE PRICE BID. 1

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 BRIDGE DEPARTMENT				
<b>GENERAL NOTES</b>				
<b>BRIDGE LAK-528-0192 OVER CHAGRIN RIVER</b>				
LAKE COUNTY				OHIO
DESIGNED JCF DATE	TRACED BCR DATE	CHECKED DWH DATE	REVIEWED GWM DATE 1/8/07	REVISED  SHEET 5/13