

**ITEM 607 - FENCE MISC., TEMPORARY FENCE**

THIS ITEM SHALL BE USED WHEN THE TIME BETWEEN THE REMOVAL OF THE EXISTING FENCE AND THE INSTALLATION OF THE PROPOSED FENCE OR NOISE BARRIER EXCEEDS ONE DAY. THIS FENCE SHALL BE INSTALLED IMMEDIATELY AFTER THE EXISTING FENCE IS REMOVED. THE TEMPORARY FENCE SHALL BE THE WOOD SNOW FENCE, PLASTIC NYLON CONSTRUCTION FENCE OR EXISTING FENCE FABRIC VARIETY MOUNTED ON DRIVEN POSTS. FOR EACH NOISE BARRIER SECTION, THE EXISTING FENCE SHALL NOT BE REMOVED EARLIER THAN 3 MONTHS PRIOR TO COMPLETION OF THE NOISE BARRIER PANELS. ALL COSTS ASSOCIATED WITH PROVIDING, INSTALLING, MAINTAINING AND REMOVING THE TEMPORARY FENCE SHALL BE INCLUDED UNDER THIS ITEM. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY:

ITEM 607 - FENCE MISC., TEMPORARY FENCE      6,000 FT

**ITEM 606 - SPECIAL - NOISE BARRIER (SEALING REQUIREMENTS), ALL SIZES**

DESCRIPTION. APPLY A SEALER/COATING TO ALL CONCRETE SURFACE AREAS OF NOISE BARRIER PANELS AND CONCRETE POSTS, EVEN CONCRETE TO CONCRETE CONTACT SURFACES.

APPLY THE COLOR DEFINED BY THE FEDERAL COLOR STANDARD IDENTIFICATION NUMBER IN THE NOISE WALL PLANS. IF THERE IS NO NUMBER, THE ENGINEER WILL SPECIFY THE COLOR.

MATERIALS. ONE COAT OF THE SEALER/COATING SHALL MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

1. FREEZE-THAW TEST. THE APPLIED FINISH COATING SHALL BE SUBJECTED TO FREEZE-THAW CYCLE TESTS AS FOLLOWS:
  - A. THREE CONCRETE SPECIMENS, NOT LESS THAN 4"X6" BY 6", MINIMUM 5000 PSI @ 28 DAYS, SHALL BE CAST AND CURED. FOURTEEN DAYS MOIST CURING WITH A DRYING PERIOD AT ROOM TEMPERATURE, 60°F TO 80°F, FOR 24 HOURS WILL BE REQUIRED BEFORE THE SPECIMENS ARE COASTED WITH THE APPLIED FINISH. CAUTION SHALL BE TAKEN THAT THERE BE NO EXCESSIVE OIL ON SPECIMEN FORMS. THE FINISH COATING SHALL BE APPLIED TO THE SIDES OF SPECIMENS AT A SPREADING RATE OF 50 +/-10 SQUARE FEET PER GALLON 1.2 +/- .2 SQ METERS PER M/L. BRUSH APPLICATION WILL BE PERMITTED. CEMENTITIOUS COATING SHALL BE CURED AT ROOM TEMPERATURE AND 50 PERCENT RELATIVE HUMIDITY FOR 24 HOURS, AT ROOM TEMPERATURE AND 90 PERCENT RELATIVE HUMIDITY FOR 48 HOURS, AT ROOM TEMPERATURE AND 50 PERCENT RELATIVE HUMIDITY FOR FOUR DAYS FOR A TOTAL CURING TIME OF SEVEN DAYS. OTHER COATINGS SHALL BE CURED AT ROOM TEMPERATURE FOR 48 HOURS AFTER COMPLETING OF CURING.
  - B. THE SPECIMENS SHALL BE IMMersed IN WATER AT ROOM TEMPERATURE FOR THREE HOURS, THEN REMOVED.
  - C. THE SPECIMENS SHALL BE PLACED IN COLD STORAGE AT -15°F (-26°C) FOR ONE HOUR, THEN REMOVED.
  - D. THE SPECIMENS SHALL BE THAWED AT ROOM TEMPERATURE FOR ONE HOUR.
  - E. STEPS C AND D ABOVE SHALL BE REPEATED FOR A TOTAL OF 300 CYCLES. AT THE END OF 300 CYCLES THE SPECIMENS SHALL SHOW NO VISIBLE DEFECTS.
2. ACCELERATED WEATHERING. THE APPLIED COATING SHALL BE SUBJECTED TO A 5,000 HOUR EXPOSURE TEST IN A TWIN-CARBON-ARC-WEATHEROMETER, ASTM G 23, TYPE D, AT AN OPERATING TEMPERATURE OF 145°F. THE TEST SHALL BE MADE AT 20-MINUTE CYCLES CONSISTING OF 17 MINUTES OF LIGHT AND 3 MINUTES OF WATER SPRAY PLUS LIGHT. AT THE END OF THE EXPOSURE TEST, THE EXPOSED SAMPLES SHALL SHOW NO CHIPPING, FLAKING, OR PEELING. THE PANELS FOR THIS TEST SHALL BE PREPARED BY APPLYING THE COASTING AT A SPREADING RATE OF 50 +/-10 SQ FEET PER GALLON TO BOTH SIDES AND EDGES OF PANELS CUT FROM ASBESTOS CEMENT SHINGLES IN ACCORDANCE WITH FEDERAL SPECIFICATION SS-S-346, TYPE I. CURING TIME SHALL BE IN ACCORDANCE WITH (1).
3. FUNGUS GROWTH RESISTANCE. THE APPLIED FINISH COATING SHALL PASS THE FUNGUS RESISTANCE TEST IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-P-29G. FUNGUS GROWTH SHALL NOT BE INDICATED AFTER A MINIMUM INCUBATION PERIOD OF 21 DAYS.
4. IMPACT RESISTANCE. THE COATING SHALL BE APPLIED TO A CONCRETE PANEL PREPARED ACCORDING TO FEDERAL TEST METHOD STANDARD 141S, METHOD 2051, AT A SPREADING RATE OF 50 +/-10 SQUARE FEET PER GALLON (1.2 +/-0.2 SQUARE METERS PER LITER), AND ALLOWED TO CURE FOR 21 DAYS AT ROOM TEMPERATURE. THE TEST SHALL THEN BE RUN USING THE GARDNER MANDREL IMPACT TESTER IN ACCORDANCE WITH ASTM D 2794 USING A 1/2 OF AN INCH INDENTER WITH AN IMPACT LOAD OF 6 INCH-POUNDS. THE COATING SHALL SHOW NO CHIPPING UNDER THIS IMPACT LOAD.
5. SALT-SPRAY RESISTANCE TEST. A CONCRETE SPECIMEN SHALL BE COATED AT THE RATE OF 50 +/-10 SQUARE FEET PER GALLON (1.2 +/-0.2 SQUARE METERS PER LITER) AND CURED FOR 21 DAYS AT ROOM TEMPERATURE. THE COATED SPECIMEN SHALL BE EXPOSED TO A 5% SALT SOLUTION IN ACCORDANCE WITH ASTM B117 FOR 2000 HOURS WHERE THE ATMOSPHERIC TEMPERATURE IS MAINTAINED AT 90° +/-2°F. AT THE END OF 2000 HOURS OF EXPOSURE, THE COATING SHALL SHOW NO ILL EFFECTS, LOSS OF ADHESION, OR DETERIORATION.
6. FLEXIBILITY TEST. A SHEET METAL SPECIMEN SHALL BE CAST WITH THE APPLIED FINISH COATING AT A RATE OF 50 +/-10 SQUARE FEET PER GALLON (1.2 +/-0.2 SQUARE METERS PER LITER) AND ALLOWED TO CURE FOR 48 HOURS AT ROOM TEMPERATURE. THE COATED SPECIMEN SHALL BE BENT 180 DEGREES OVER A 1" ROUND MANDREL. AFTER BENDING, THE COATING SHALL SHOW NO BREAKING.

7. ABSORPTION -THE ABSORPTION OF TREATED CONCRETE UNDER TOTAL IMMERSION SHALL NOT EXCEED 1.0% AFTER 48 HOURS OR 2.0% AFTER 50 DAYS (ASTM C642, NON-AIR ENTRAINED CONCRETE). CONCRETE SHOULD BE PROPORTIONED AND MIXED IN ACCORDANCE WITH ASTM C672.

8. SCALING RESISTANCE -TREATED CONCRETE SHALL PASS ASTM C672, SCALING RESISTANCE TEST WITH A RATING OF "NO SCALING" AFTER 50 CYCLES (NON-AIR ENTRAINED CONCRETE) AS COMPARED TO "SEVERE SCALING" ON UNTREATED CONCRETE.

9. NCHRP 244, SERIES IV -SOUTHERN EXPOSURE: 4.1 ABSORBED CHLORIDE: NOT TO EXCEED 10% OF UNTREATED CONCRETE.

MATERIALS APPROVAL. SUBMIT CERTIFIED TEST DATA TO THE ENGINEER THAT SHOWS THE SEALER/COATING MEETS THE MATERIAL PROPERTIES.

PRE-APPROVED PRODUCTS AND COVERAGE THICKNESS FOR THE PRODUCT:

1. TAMMSCOAT FINE ODOT  
TAMMS INDUSTRIES COMPANY  
61 AMERICAN STREET  
CHAGRIN FALLS, OHIO 44022

APPLICATION DRY FILM THICKNESS 20 MILS (380 :M)  
SMOOTH SURFACE -RATE OF 50 SQ FT./GAL  
TEXTURED SURFACE (ASHLAR STONE) -RATE OF 40 SQ. FT./GAL  
TEXTURED SURFACE (3/4 FLUTED) -25 SQ. FT./GAL

2. BRIDGE COTE XL-70 W/SILANE (FINE TEXTURE) BY TEX COTE OR BRIDGE COTE XL-70 BY TEX COTE  
TEXTURED COATINGS OF AMERICA  
4101 RAVENSWOOD ROAD, SUITE 101A  
FT. LAUDERDALE, FLORIDA 33312-5371

APPLICATION DRY FILM THICKNESS 15 MILS (380 :M)  
SMOOTH SURFACE -RATE OF 50 SQ FT./GAL  
TEXTURED SURFACE (ASHLAR STONE) -RATE OF 40 SQ. FT./GAL  
TEXTURED SURFACE (3/4 FLUTED) -25 SQ. FT./GAL

3. TEXTUREDOT BY CHEMMASTERS  
300 EDWARDS STREET  
MADISON, OHIO 44057

APPLICATION DRY FILM THICKNESS 15 MILS (380 :M)  
SMOOTH SURFACE -RATE OF 50 SQ FT./GAL  
TEXTURED SURFACE (ASHLAR STONE) -RATE OF 40 SQ. FT./GAL  
TEXTURED SURFACE (3/4 FLUTED) -25 SQ. FT./GAL

4. MARK-173 BY POLY-CARB33095  
BAINBRIDGE RD  
CLEVELAND, OHIO 44139

APPLICATION DRY FILM THICKNESS 19 MILS  
SMOOTH SURFACE -RATE OF 50 SQ. FT./GAL  
TEXTURED SURFACE (ASHLAR STONE) -RATE OF 40 SQ. FT./GAL  
TEXTURED SURFACE (3/4 FLUTED) -RATE OF 25 SQ. FT./GAL

TAKE A VERIFICATION SAMPLE DURING THE COATING OPERATION BY COLLECTING A QUART (1 LITER) SAMPLE FROM THE SPRAY GUN DURING APPLICATION. SEND THE SAMPLE TO MATERIALS MANAGEMENT FOR TESTING. THIS SAMPLE IS FOR VERIFICATION OF MATERIALS NOT ACCEPTANCE.

1. CONTRACTOR TESTING EQUIPMENT. PROVIDE, IN GOOD WORKING ORDER, THE FOLLOWING TESTING EQUIPMENT:
2. ONE SLING PSYCHROMETER INCLUDING PSYCHOMETRIC TABLES -USED TO RELATIVE HUMIDITY AND DEW POINT TEMPERATURE.  
TWO STEEL SURFACE THERMOMETERS ACCURATE WITHIN 10 C (20 F) OR ONE PORTABLE INFRARED THERMOMETER (MODEL: RAYNGER ST SERIES (-18°C TO 400° C) AVAILABLE FROM RAYTEK INC. OF SANTA CRUZ, CA. (PHONE (800)227-8074) OR APPROVED