

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

3. SSPC VISUAL STANDARD FOR ABRASIVE BLAST CLEANED STEEL SSPC-VIS 1-89 ONE RECORDER THERMOMETER CAPABLE OF RECORDING THE DATE, TIME, AND
4. TEMPERATURE OVER A PERIOD OF AT LEAST 12 HOURS.

SURFACE PREPARATION. THOROUGHLY CLEAN ALL CONCRETE SURFACES REMOVE DUST, DIRT, OIL, WAX, CURING COMPONENTS, EFFLORESCENCE, LAITANCE, COATINGS AND OTHER FOREIGN MATERIALS. PROVIDE WRITTEN ACCEPTANCE FROM THE SEALER/COATING MANUFACTURER FOR ANY CHEMICALS AND OTHER CLEANING COMPOUNDS USED TO HELP REMOVE FOREIGN MATERIALS. APPLY THE SEALER/COATING WITHIN 48 HOURS AFTER SURFACE PREPARATION.

USE CLEANING EQUIPMENT FITTED WITH SUITABLE TRAPS, FILTERS, DRIP PANS AND OTHER DEVICES TO PREVENT OIL OR OTHER FOREIGN MATERIAL BEING DEPOSITED ON THE SURFACE.

CLEAN THE CONCRETE AS FOLLOWS:

1. WATER CURED NEW CONCRETE SURFACES: WATER BLAST WITH 48 MPA (7,000 PSI) MINIMUM
2. NEW CONCRETE SURFACES WITH CURING COMPOUNDS OR CONCRETE SURFACES EXPOSED TO A HIGHWAY ENVIRONMENT FOR MORE THAN 180 DAYS:
 - A. A WATER BLAST AT 48 MPA (7,000 P.S.I.) MINIMUM, OR
 - B. A SANDBLAST FOLLOWED BY AIR BROOMING OR POWER SWEEPING TO REMOVE DUST AND SAND FROM THE SURFACES AND OPENED PORES.

APPLY THE SEALER/COATING AFTER NEW CONCRETE HAS AIR DRIED FOR AT LEAST THREE (3) DAYS IN ADDITION TO THE REQUIRED CURING TIME. ANY GROUT FILLED CAVITIES WILL BE CURED THE SAME TIME AS THE NEW CONCRETE AND AIR-DRIED FOR THREE DAYS.

APPLY THE SEALER/COATING TO ACCELERATED CURED PRECAST CONCRETE AFTER THE CONCRETE HAS REACHED ITS REQUIRED 28 DAY DESIGN STRENGTH, ANY CAVITIES HAVE BEEN GROUT FILLED AND CURED; AND THE TOTAL COMPONENT IS AIR-DRIED FOR THREE(3) DAYS.

BLAST CLEAN ANY RUST STAINED AREAS ON THE CONCRETE TWICE.

IF EXPOSED REINFORCING STEEL CHAIR LEGS OR OTHER BARE SUPPORT STEEL IS VISIBLE, SANDBLAST CLEAN THAT LOCATION TO A SSPC-SP6 COMMERCIAL BLAST. CONTACT THE ENGINEER TO DETERMINE IF THE CONCRETE COMPONENT IS STILL ACCEPTABLE. IF THE EXPOSED STEEL IS REINFORCING REMOVE THE CONCRETE COMPONENT IS REJECTED. IF THE ENGINEER APPROVES THE PIECE, RE-CLEAN THE AREA OF ANY RUST BEFORE APPLYING THE SEALER/COATING.

GIVE THE ENGINEER AN APPLICATION PROCEDURE THAT DESCRIBES HOW ALL CONCRETE SURFACES ARE COATED AND ANY DAMAGED AREAS ARE TOUCHED UP. PRE-COATING IN THE PRECASTER'S YARD, WHETHER PARTIAL OR TOTAL, IS ACCEPTABLE. THE ENGINEER CAN REQUIRE ADDITIONAL FIELD APPLICATION BEFORE FINAL ACCEPTANCE.

EQUIPMENT. USE APPLICATION EQUIPMENT RECOMMENDED BY THE SEALER/COATING MANUFACTURER. SPRAY EQUIPMENT, TANKS, HOSES, ROLLERS, ETC., SHALL BE THOROUGHLY CLEAN, FREE OF FOREIGN MATTER, OIL RESIDUE AND WATER PRIOR TO APPLYING THE CONCRETE SEALER/COATING.

APPLICATION. APPLY MATERIAL BETWEEN THE FOLLOWING AMBIENT TEMPERATURES: 40°F TO 100°F. DO NOT APPLY SEALER/COATING IF THE EXPECTED AMBIENT TEMPERATURE IS EXPECTED TO BE BELOW OR ABOVE THE ABOVE TEMPERATURE RANGE FOR UP TO 12 HOURS AFTER APPLICATION. DO NOT APPLY THE SEALER/COATING IF RAIN IS ANTICIPATED WITHIN 4 HOURS AFTER APPLIC

FOLLOW THE MANUFACTURER'S RECOMMENDED TEMPERATURES IF MORE RESTRICTIVE THAN SPECIFIED ABOVE.

CLEANLY NOTE WHERE APPLICATION HAS STOPPED IF UNABLE TO COMPLETE THE ENTIRE APPLICATION CONTINUOUSLY. RE-INSPECT AND RE-BLAST AT THE NEW START POINT TO MEET SPECIFICATIONS.

MIXING. MIX SEALER/COATING ACCORDING TO THE MANUFACTURER'S RECOMMENDED WRITTEN PROCEDURES. MIX TO A UNIFORM CONSISTENCY AND MAINTAIN THAT DURING THE APPLICATION.

TEST APPLICATION. APPLY THE SEALER/COATING TO A MEASURED TEST COVERAGE AREA OF DIFFERENT NOISE WALL COMPONENTS TO DEMONSTRATE THE DESIRED PHYSICAL AND VISUAL EFFECT OF THE SEALER/COATING AND TO SHOW THE ENGINEER COVERAGE IS ACHIEVED.

APPEARANCE. APPLY THE SEALER/COATING TO ACHIEVE A UNIFORM APPEARANCE.

STORAGE. STORE SEALER/COATING COMPONENTS IN TIGHTLY SEALED CONTAINERS, IN A DRY LOCATION, AND AS RECOMMENDED BY THE MANUFACTURER. PROVIDE THE ENGINEER WITH THE MANUFACTURER'S WRITTEN DOCUMENTATION ON STORAGE AND REQUIRED TEMPERATURE.

PROTECTION OF ADJOINING SURFACES AND THE PUBLIC. WHEN APPLYING A SEALER/COATING, PROTECT ADJOINING SURFACES THAT SHOULDN'T COATED BY MASKING OFF, OR BY OTHER MEANS. PROTECT THE PUBLIC WHEN APPLYING SEALER/COATING IN AN AREA USED BY THE PUBLIC.

PROTECT ASPHALT AND MASTIC TYPE SURFACES FROM SPILLAGE AND HEAVY OVERSPRAY. DON'T APPLY THE SEALER/COATING ON JOINT SEALANTS WHICH HAVE NOT CURED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. JOINT SEALANTS, MAY BE APPLIED TO THE COATED SURFACES AFTER THE SEALER/COATING HAS BEEN APPLIED AND IS DRY TO THE TOUCH.

ENVIRONMENTAL REQUIREMENTS. PROTECT PLANTS AND VEGETATION FROM OVERSPRAY BY COVERING WITH DROP CLOTHS. COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL RESTRICTIONS.

PRECAUTIONS. FOLLOW PRECAUTIONS ON THE MANUFACTURER'S MSDS.

BASIS OF PAYMENT. PAYMENT FOR MATERIALS, LABOR AND APPLICATION OF SEALER/ COATING SHALL BE INCIDENTAL TO THE SQUARE FOOT COST OF THE NOISE WALL.