

SEAL:



4/16/19

PART 3 EXECUTION

3.01 INSTALLATION

- A. COMPLY WITH ASTM C 636 AND SEISMIC DESIGN REQUIREMENTS INDICATED, PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CISCA'S "CEILING SYSTEMS HANDBOOK."
- B. MEASURE EACH CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL TILES TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING. AVOID USING LESS-THAN-HALF-WIDTH TILES AT BORDERS
- C. SUSPEND CEILING HANGERS FROM BUILDING'S STRUCTURAL MEMBERS. PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS WITHIN CEILING PLENUM. SPLAY HANGERS ONLY WHERE REQUIRED AND, IF PERMITTED WITH FIRE-RESISTANCE-RATED CEILING, TO MISS OBSTRUCTIONS. OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACINGS THAT INTERFERE WITH LOCATION OF HANGERS, USE TRAPEZES OR EQUIVALENT DEVICES. WHEN STEEL FRAMING DOES NOT PERMIT INSTALLATION OF HANGER WIRES AT SPACING REQUIRED, INSTALL CARRYING CHANNELS OR OTHER SUPPLEMENTAL SUPPORT FOR ATTACHMENT OF HANGER WIRES.

3.01 EXAMINATION

- A. EXAMINE SUBSTRATES WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK
- B. VERIFY THAT FINISHES OF SUBSTRATES COMPLY WITH TOLERANCES AND OTHER REQUIREMENTS SPECIFIED IN OTHER SECTIONS AND THAT SUBSTRATES ARE FREE OF CRACKS, RIDGES, DEPRESSIONS, SCALE, AND FOREIGN DEPOSITS THAT MIGHT INTERFERE WITH ADHESION OF FLOOR TILE
- C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED

3.02 PREPARATION

- A. PREPARE SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE ADHESION OF RESILIENT PRODUCTS
- B. CONCRETE SUBSTRATES: PREPARE ACCORDING TO ASTM F 710.
 - 1. VERIFY THAT SUBSTRATES ARE DRY AND FREE OF CURING COMPOUNDS, SEALERS, AND HARDENERS.
 - 2. REMOVE SUBSTRATE COATINGS AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, USING MECHANICAL METHODS RECOMMENDED BY MANUFACTURER. DO NOT USE SOLVENTS.
 - 3. ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING.
- C. TEST SURFACE ALKALINITY (ASTM F710). A TO 1.0 TO 10.0 PH IS ACCEPTABLE. REDUCE HIGHER PH BY MOPPING ON A VINEGAR/WATER SOLUTION: 1 PART VINEGAR TO 2 GALLONS WATER.
- 4. MOISTURE TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER AND AS FOLLOWS. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING.
 - A. PERFORM EITHER THE REFERRED IN-SITU RELATIVE HUMIDITY (RH) TEST (ASTM F2170) OR THE ACCEPTABLE MOISTURE VAPOR EMISSION RATE (MVER) TEST (ASTM F1869). INTERNAL RH READINGS ABOVE 90% OR MVER READINGS ABOVE 5 LB/1000SF/24 HRS. REQUIRE A MOISTURE SUPPRESSANT SYSTEM.
 - C. FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES WITH TROWELABLE LEVELING COMPOUND AND PATCHING COMPOUND AND REMOVE BUMPS AND RIDGES TO PRODUCE A UNIFORM AND SMOOTH SUBSTRATE. THE SURFACE SHALL BE FLAT TO 1/8" IN 10 FT. (3MM IN 3M).
 - D. DO NOT INSTALL FLOOR TILES UNTIL THEY ARE SAME TEMPERATURE AS SPACE WHERE THEY ARE TO BE INSTALLED.
 - E. SWEEP AND VACUUM CLEAN SUBSTRATES TO BE COVERED BY RESILIENT PRODUCTS IMMEDIATELY BEFORE INSTALLATION.

END OF SECTION 095123

SECTION 09519

RESILIENT TILE FLOORING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 SUMMARY

A. SECTION INCLUDES:

- 1. VINYL FLOOR, PLANK FLOORING.

1.03 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
- B. SHOP DRAWINGS: FOR EACH TYPE OF FLOOR TILE. INCLUDE FLOOR TILE LAYOUTS, EDGES, COLUMNS, DOORWAYS, ENCLOSING PARTITIONS, BUILT-IN FURNITURE, CABINETS AND CUTOUTS.
 - 1. SHOW DETAILS OF SPECIAL PATTERNS.
- C. SAMPLES FOR INITIAL SELECTION: FOR SELECTING TILES FROM CARTONS IN THE SAME SEQUENCE AS MANUFACTURED AND PACKAGED, IF SO NUMBERED. DISCARD BROKEN, CRACKED, CHIPPED, OR DEFORMED TILES.
 - 1. LAY TILES WITH GRAIN RUNNING IN ONE DIRECTION.
- D. SCRIBE, CUT, AND FIT FLOOR TILES TO BUTT NEATLY AND TIGHTLY TO VERTICAL SURFACES AND PERMANENT FIXTURES INCLUDING BUILT-IN FURNITURE, CABINETS, PIPES, OUTLETS, AND DOOR FRAMES.
- E. EXTEND FLOOR TILES INTO TOE SPACES, DOOR REVELS, CLOSETS, AND SIMILAR OPENINGS. EXTEND FLOOR TILES TO CENTER OF DOOR OPENINGS.
- F. MAINTAIN REFERENCE MARKERS, HOLES, AND OPENINGS THAT ARE IN PLACE OR MARKED FOR FUTURE CUTTING BY REPEATING ON FLOOR TILES AS MARKED ON SUBSTRATES. USE CHALK OR OTHER NON-PERMANENT, NON-STAINING MARKING DEVICE.
- G. INSTALL FLOOR TILES ON COVERS FOR TELEPHONE AND ELECTRICAL DUCTS, BUILDING EXPANSION-JOINT COVERS, AND SIMILAR ITEMS IN FINISHED FLOOR AREAS. MAINTAIN OVERALL CONTINUITY OF COLOR AND PATTERN PIECES TO TILE INSTALLED ON COVERS AND ADJOINING TILES. TIGHTLY ADHERE TILE EDGES TO SUBSTRATES THAT ABUT COVERS AND TO COVER PERIMETERS.
- H. ADHERE FLOOR TILES TO FLOORING SUBSTRATES USING A FULL SPREAD OF ADHESIVE APPLIED TO SUBSTRATE TO PRODUCE A COMPLETED INSTALLATION WITHOUT OPEN CRACKS, Voids, RAISING AND PUCKERING AT JOINTS, TELEGRAPHING OF ADHESIVE SPREADER MARKS, AND OTHER SURFACE IMPERFECTIONS.

1.04 QUALITY ASSURANCE

- A. INSTALLER QUALIFICATIONS: A QUALIFIED INSTALLER WHO EMPLOYS WORKERS FOR THIS PROJECT WHO ARE COMPETENT IN TECHNIQUES REQUIRED BY MANUFACTURER FOR FLOOR TILE INSTALLATION INDICATED.
- 1. ENGAGE AN INSTALLER WHO EMPLOYS WORKERS FOR THIS PROJECT WHO ARE TRAINED OR CERTIFIED BY MANUFACTURER FOR INSTALLATION TECHNIQUES REQUIRED.
- B. FIRE TEST RESPONSE CHARACTERISTICS: AS DETERMINED BY TESTING IDENTICAL PRODUCTS ACCORDING TO ASTM E 648 OR NFPA 253 BY A QUALIFIED TESTING AGENCY.
 - 1. CRITICAL RADIANT FLUX CLASSIFICATION: CLASS I, NOT LESS THAN 0.45 W/SQ. CM.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. STORE FLOOR TILE AND INSTALLATION MATERIALS IN DRY SPACES PROTECTED FROM THE WEATHER, WITH AMBIENT TEMPERATURES MAINTAINED WITHIN RANGE RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN 50 DEG F (10 DEG C) OR MORE THAN 90 DEG F (32 DEG C). STORE FLOOR TILES ON FLAT SERVICES.

1.06 PROJECT CONDITIONS

- A. STORE FLOOR TILE AND INSTALLATION MATERIALS IN DRY SPACES PROTECTED FROM THE WEATHER, WITH AMBIENT TEMPERATURES MAINTAINED WITHIN RANGE RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN 70 DEG F (21 DEG C) OR MORE THAN 95 DEG F (35 DEG C) IN SPACES TO RECEIVE FLOOR TILE DURING THE FOLLOWING TIME PERIODS:
 - 1. 48 HOURS BEFORE INSTALLATION.
 - 2. DURING INSTALLATION.
 - 3. 48 HOURS AFTER INSTALLATION.
- B. UNTIL SUBSTANTIAL COMPLETION, MAINTAIN AMBIENT TEMPERATURES WITHIN RANGE RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN 55 DEG F (13 DEG C) OR MORE THAN 95 DEG F (35 DEG C)
- C. CLOSE SPACES TO TRAFFIC DURING FLOOR TILE INSTALLATION.
- D. CLOSE SPACES TO TRAFFIC FOR 48 HOURS AFTER FLOOR TILE INSTALLATION, INCLUDING PAINTING, HAVE BEEN COMPLETED.

1.07 EXTRA MATERIALS

- A. FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGE WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.
 - 1. FLOOR TILE: FURNISH 1 BOX FOR EVERY 50 BOXES OR FRACTION THEREOF, OF EACH TYPE, COLOR, AND PATTERN OF FLOOR TILE INSTALLED.

PART 2 PRODUCTS

- A. PRODUCTS: AS SPECIFIED ON DRAWINGS.
- B. TILE STANDARD: ASTM F 1700.
 - 1. CLASS: (AS INDICATED BY PRODUCT DESIGNATIONS) (CLASS I, MONOLITHIC VINYL TILE) (CLASS II, SURFACE-DECORATED VINYL TILE) (CLASS III, PRINTED FILM VINYL TILE).
 - 2. TYPE: (TYPE A, SMOOTH SURFACE) (TYPE B, EMBOSSED SURFACE).
- C. THICKNESS: .096 IN CUT.
- D. SIZE: 4'X36".
- E. COLORS AND PATTERNS: AS NOTED ON DRAWINGS.

2.02 INSTALLATION MATERIALS

- A. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT BASED ON BLENDING HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER FOR APPLICATIONS INDICATED.
- B. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUITE FLOOR TILE AND SUBSTRATE CONDITIONS INDICATED.
 - 1. USE ADHESIVES THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):

PART 3 EXECUTION

3.01 EXAMINATION

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- B. VERIFY THAT FINISHES OF SUBSTRATES COMPLY WITH TOLERANCES AND OTHER REQUIREMENTS SPECIFIED IN OTHER SECTIONS AND THAT SUBSTRATES ARE FREE OF CRACKS, RIDGES, DEPRESSIONS, SCALE, AND FOREIGN DEPOSITS THAT MIGHT INTERFERE WITH ADHESION OF FLOOR TILE
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3.02 PREPARATION

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- B. CONCRETE SUBSTRATES: PREPARE ACCORDING TO ASTM F 710.
 - 1. VERIFY THAT SUBSTRATES ARE DRY AND FREE OF CURING COMPOUNDS, SEALERS, AND HARDENERS.
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 - 3. ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING.
- C. TEST SURFACE ALKALINITY (ASTM F710). A TO 1.0 TO 10.0 PH IS ACCEPTABLE. REDUCE HIGHER PH BY MOPPING ON A VINEGAR/WATER SOLUTION: 1 PART VINEGAR TO 2 GALLONS WATER.
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 - D. DO NOT INSTALL FLOOR TILES UNTIL THEY ARE SAME TEMPERATURE AS SPACE WHERE THEY ARE TO BE INSTALLED.
 - E. SWEEP AND VACUUM CLEAN SUBSTRATES TO BE COVERED BY RESILIENT PRODUCTS IMMEDIATELY BEFORE INSTALLATION.

END OF SECTION 097700

SECTION 09800

PAINTS AND COATINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. SURFACE PREPARATION.
- B. FIELD APPLICATION OF PAINTS AND OTHER COATINGS.
- C. SEE SCHEDULE - SURFACES TO BE FINISHED, AT END OF SECTION.

1.02 REFERENCES

- A. ASTM D 16 - STANDARD TERMINOLOGY FOR PAINT, RELATED COATINGS, MATERIALS, AND APPLICATIONS, 2000.
- 1.03 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE
- B. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH MINIMUM 5 YEARS EXPERIENCE.

1.04 REGULATORY REQUIREMENTS

- A. CONFORM TO APPLICABLE CODE FOR FLAME AND SMOKE RATING REQUIREMENTS FOR PRODUCTS AND FINISHES.
- 1.05 DELIVERY, STORAGE, AND PROTECTION
- A. DELIVER PRODUCTS TO SITE IN SEALED AND LABELED CONTAINERS, INSPECT TO VERIFY LABELING.
- B. CONTAINER LABEL: INCLUDE MANUFACTURER'S NAME, TYPE OF PAINT, BRAND NAME, LOT NUMBER, BRAND CODE, COVERAGE, SURFACE PREPARATION, DRYING TIME, CLEANUP REQUIREMENTS, COLOR DESIGNATION, AND INSTRUCTIONS FOR MIXING AND BLENDING.
- C. PAINT MATERIALS: STORE AT MINIMUM AMBIENT TEMPERATURE OF 45 DEGREES F (7 DEGREES C) AND A MAXIMUM OF 90 DEGREES F (32 DEGREES C), IN VENTILATED AREA, AND AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. DO NOT APPLY MATERIALS WHEN SURFACE AND AMBIENT TEMPERATURES ARE OUTSIDE THE TEMPERATURE RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
- B. DO NOT APPLY EXTERIOR COATINGS DURING RAIN OR SNOW, OR WHEN RELATIVE HUMIDITY IS OUTSIDE THE HUMIDITY RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
- C. MINIMUM APPLICATION TEMPERATURES FOR LATEX PAINTS: 45 DEGREES F (7 DEGREES C) FOR INTERIORS, 50 DEGREES F (10 DEGREES C) FOR EXTERIOR, UNLESS REQUIRED OTHERWISE BY MANUFACTURER'S INSTRUCTIONS.
- D. PROVIDE LIGHTING LEVEL OF 40 FT CANDLES (80 LX) MEASURED MID-HEIGHT AT SUBSTRATE SURFACE.

1.07 EXTRA MATERIALS

- A. SEE SECTION 01600 - PRODUCT REQUIREMENTS, FOR ADDITIONAL PROVISIONS.
- B. SUPPLY 1 GALLON (4 L) OF EACH COLOR, STORE WHERE DIRECTED.
- C. LABEL EACH CONTAINER WITH COLOR IN ADDITION TO THE MANUFACTURER'S LABEL.

PART 2 PRODUCTS

- 2.01 MANUFACTURERS
 - A. SHERWIN WILLIAMS: WWW.SHERWIN-WILLIAMS.COM.
 - B. THE MINWAX COMPANY: WWW.MINWAX.COM.
 - C. SUBSTITUTIONS: SEE SECTION 01600 - PRODUCT REQUIREMENTS.

2.02 PAINTS AND COATINGS - GENERAL

- A. PAINTS AND COATINGS: READY-MIXED, EXCEPT FIELD-CATALYZED COATINGS. PREPARE PIGMENTS:
 - 1. TO A SOFT PASTE CONSISTENCY, CAPABLE OF BEING READILY AND UNIFORMLY DISPENSED TO A HOMOGENEOUS COATING.
 - 2. FOR GOOD FLOW AND BRUSHING PROPERTIES.
 - 3. CAPABLE OF DRYING OR CURING FREE OF STREAKS OR SAGS.

2.03 ACCESSORY MATERIALS

- A. ACCESSORY MATERIALS: LINSEED OIL, SHELLAC, TURPENTINE, PAINT THINNERS AND OTHER MATERIALS NOT SPECIFICALLY INDICATED BUT REQUIRED TO ACHIEVE THE FINISHES SPECIFIED, COMMERCIAL QUALITY.
- B. PATCHING MATERIAL: LATEX FILLER.
- C. FASTENER HEAD COVER MATERIAL: LATEX FILLER.

PART 3 EXECUTION

- 3.01 EXAMINATION
 - A. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK AS INSTRUCTED BY THE PRODUCT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY CONDITION THAT MAY POTENTIALLY AFFECT PROPER APPLICATION.
 - C. TEST SHOP-APPLIED PRIMER FOR COMPATIBILITY WITH SUBSEQUENT COVER MATERIALS.

END OF SECTION 09800

3.02 EXAMINATION

- A. SITE VERIFICATION OF CONDITIONS: VERIFY THAT SUBSTRATE CONDITIONS, WHICH HAVE BEEN PREVIOUSLY INSTALLED UNDER SECTIONS, ARE ACCEPTABLE FOR PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 1. EXAMINE BACKUP SURFACES TO DETERMINE THAT CORNERS ARE PLUMB AND STRAIGHT. SURFACES ARE SMOOTH, UNIFORM, CLEAN AND FREE FROM FOREIGN MATTER. NAILS ARE COUNTERSUNK AND JOINTS AND CRACKS ARE FILLED FLUSH AND SMOOTH WITH THE ADJOINING SURFACE.
- 2. DO NOT BEGIN INSTALLATION UNTIL BACKUP SURFACES ARE IN SATISFACTORY CONDITION.

3.03 PREPARATION

- A. SURFACE PREPARATION: SPECIFY APPLICABLE PRODUCT PREPARATION REQUIREMENTS.

3.04 INSTALLATION

- A. FIBERGLASS REINFORCED PANEL (FRP) INSTALLATION:
 - 1. CUT AND DRILL PANELS WITH CARBIDE TIPPED SAW BLADES OR DRILL BITS, OR CUT WITH SHIPS.
 - 2. INSTALL PANELS WITH MANUFACTURER'S RECOMMENDED GAP FOR PANEL FIELD AND CORNER JOINTS.
 - 3. PRE-DRILL FASTENER HOLES IN PANELS WITH 1/8 INCH OVERSIZE.
 - 4. FOR TROWEL TYPE AND APPLICATION OF ADHESIVE, FOLLOW ADHESIVE MANUFACTURER'S RECOMMENDATIONS.
 - 5. USE PRODUCTS ACCEPTABLE TO PANEL MANUFACTURER AND INSTALL FRP SYSTEM IN ACCORDANCE WITH PANEL MANUFACTURER'S PRINTED INSTRUCTIONS. COMPLY WITH PANEL MANUFACTURER'S INSTALLATION GUIDE #821.

3.05 CLEANING

- A. CLEANING: REMOVE TEMPORARY COVERINGS AND PROTECTIONS OF ADJACENT WORK AND REPAIR OR REPLACE PRODUCTS THAT HAVE BEEN INSTALLED AND ARE DAMAGED. CLEAN INSTALLED PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS PRIOR TO OWNER'S ACCEPTANCE. REMOVE CONSTRUCTION DEBRIS FROM PROJECT SITE AND LEGALLY DISPOSE OF DEBRIS.
 - 1. REMOVE ANY ADHESIVE OR EXCESSIVE SEALANT FROM PANEL FACE USING SOLVENT OR CLEANER RECOMMENDED BY PANEL MANUFACTURER.

3.06 PROTECTION

- A. PROTECTION: PROTECT INSTALLED PRODUCT AND FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION.

END OF SECTION 097700

SECTION 09900

PAINTS AND COATINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

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1.02 REFERENCES

- A. ASTM D 16 - STANDARD TERMINOLOGY FOR PAINT, RELATED COATINGS, MATERIALS, AND APPLICATIONS, 2000.
- 1.03 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE
- B. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH MINIMUM 5 YEARS EXPERIENCE.

1.04 REGULATORY REQUIREMENTS

- A. CONFORM TO APPLICABLE CODE FOR FLAME AND SMOKE RATING REQUIREMENTS FOR PRODUCTS AND FINISHES.
- 1.05 DELIVERY, STORAGE, AND PROTECTION
- A. DELIVER PRODUCTS TO SITE IN SEALED AND LABELED CONTAINERS, INSPECT TO VERIFY LABELING.
- B. CONTAINER LABEL: INCLUDE MANUFACTURER'S NAME, TYPE OF PAINT, BRAND NAME, LOT NUMBER, BRAND CODE, COVERAGE, SURFACE PREPARATION, DRYING TIME, CLEANUP REQUIREMENTS, COLOR DESIGNATION, AND INSTRUCTIONS FOR MIXING AND BLENDING.
- C. PAINT MATERIALS: STORE AT MINIMUM AMBIENT TEMPERATURE OF 45 DEGREES F (7 DEGREES C) AND A MAXIMUM OF 90 DEGREES F (32 DEGREES C), IN VENTILATED AREA, AND AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. DO NOT APPLY MATERIALS WHEN SURFACE AND AMBIENT TEMPERATURES ARE OUTSIDE THE TEMPERATURE RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
- B. DO NOT APPLY EXTERIOR COATINGS DURING RAIN OR SNOW, OR WHEN RELATIVE HUMIDITY IS OUTSIDE THE HUMIDITY RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
- C. MINIMUM APPLICATION TEMPERATURES FOR LATEX PAINTS: 45 DEGREES F (7 DEGREES C) FOR INTERIORS, 50 DEGREES F (10 DEGREES C) FOR EXTERIOR, UNLESS REQUIRED OTHERWISE BY MANUFACTURER'S INSTRUCTIONS.
- D. PROVIDE LIGHTING LEVEL OF 40 FT CANDLES (80 LX) MEASURED MID-HEIGHT AT SUBSTRATE SURFACE.

1.07 EXTRA MATERIALS

- A. SEE SECTION 01600 - PRODUCT REQUIREMENTS, FOR ADDITIONAL PROVISIONS.
- B. SUPPLY 1 GALLON (4 L) OF EACH COLOR, STORE WHERE DIRECTED.
- C. LABEL EACH CONTAINER WITH COLOR IN ADDITION TO THE MANUFACTURER'S LABEL.

PART 2 PRODUCTS

- 2.01 MANUFACTURERS
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 - B. THE MINWAX COMPANY: WWW.MINWAX.COM.
 - C. SUBSTITUTIONS: SEE SECTION 01600 - PRODUCT REQUIREMENTS.

2.02 PAINTS AND COATINGS - GENERAL

- A. PAINTS AND COATINGS: READY-MIXED, EXCEPT FIELD-CATALYZED COATINGS. PREPARE PIGMENTS:
 - 1. TO A SOFT PASTE CONSISTENCY, CAPABLE OF BEING READILY AND UNIFORMLY DISPENSED TO A HOMOGENEOUS COATING.
 - 2. FOR GOOD FLOW AND BRUSHING PROPERTIES.
 - 3. CAPABLE OF DRYING OR CURING FREE OF STREAKS OR SAGS.

2.03 ACCESSORY MATERIALS

- A. ACCESSORY MATERIALS: LINSEED OIL, SHELLAC, TURPENTINE, PAINT THINNERS AND OTHER MATERIALS NOT SPECIFICALLY INDICATED BUT REQUIRED TO ACHIEVE THE FINISHES SPECIFIED, COMMERCIAL QUALITY.
- B. PATCHING MATERIAL: LATEX FILLER.
- C. FASTENER HEAD COVER MATERIAL: LATEX FILLER.

PART 3 EXECUTION

- 3.01 EXAMINATION
 - A. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK AS INSTRUCTED BY THE PRODUCT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY CONDITION THAT MAY POTENTIALLY AFFECT PROPER APPLICATION.
 - C. TEST SHOP-APPLIED PRIMER FOR COMPATIBILITY WITH SUBSEQUENT COVER MATERIALS.

END OF SECTION 09900

3.02 PREPARATION

- A. SURFACE APURTENANCES: REMOVE OR MASK ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, ESCUTCHEONS, AND FITTINGS PRIOR TO PREPARING SURFACES OR FINISHING.
- B. SURFACES: CORRECT DEFECTS AND CLEAN SURFACES WHICH AFFECT WORK OF THIS SECTION. REMOVE OR REPAIR EXISTING COATINGS THAT EXHIBIT SURFACE DEFECTS.
- C. MARKS: SEAL WITH SHELLAC THOSE WHICH MAY BLEED THROUGH SURFACE FINISHES.
- D. IMPERVIOUS SURFACES: REMOVE MILDEW BY SCRUBBING WITH SOLUTION OF TETRA-SODIUM PHOSPHATE AND BLEACH. RINSE WITH CLEAN WATER AND ALLOW SURFACE TO DRY.
- E. CONCRETE AND UNIT MASONRY SURFACES TO BE PAINTED: REMOVE DIRT, LOOSE MORTAR, SCALE, SAI OR ALKALI POWDER, AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE, RINSE WELL, AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING I CORRODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

3.03 APPLICATION

- A. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. REFER TO SECTION 15075 AND SECTION 16075 FOR SCHEDULE OF COLOR CODING OF EQUIPMENT, DUCT WORK, PIPING, AND CONDUIT.
- B. PAINT SHOP-PRIMED EQUIPMENT, WHERE INDICATED.
- C. REMOVE UNFINISHED LOUVERS, GRILLES, COVERS, AND ACCESS PANELS ON MECHANICAL AND ELECTRICAL COMPONENTS AND PAINT SEPARATELY.
- D. FINISH EQUIPMENT, PIPING, CONDUIT, AND EXPOSED DUCT WORK IN COLORS ACCORDING TO THE COLOR CODING SCHEME INDICATED.
- E. REINSTALL ELECTRICAL COVER PLATES, HARDWARE, LIGHT FIXTURE TRIM, ESCUTCHEONS, AND FITTING REMOVED PRIOR TO FINISHING.

3.05 CLEANING

- A. COLLECT WASTE MATERIAL WHICH MAY CONSTITUTE A FIRE HAZARD, PLACE IN CLOSED METAL CONTAINERS, AND REMOVE DAILY FROM SITE.
- 3.06 SCHEDULE - SURFACES TO BE FINISHED
- A. DO NOT PAINT OR FINISH THE FOLLOWING ITEMS:
 - 1. ITEMS FULLY FACTORY-FINISHED UNLESS SPECIFICALLY NOTED.
 - 2. FIRE RATING LABELS, EQUIPMENT SERIAL NUMBER AND CAPACITY LABELS.
- B. PAINT THE SURFACES DESCRIBED BELOW UNDER SCHEDULE - PAINT SYSTEMS.
 - C. MECHANICAL AND ELECTRICAL: USE PAINT SYSTEMS DEFINED FOR THE SUBSTRATES TO BE FINISHED.
 - 1. PAINT ALL INSULATED AND EXPOSED PIPES OCCURRING IN FINISHED AREAS TO MATCH BACKGROUND SURFACES, UNLESS OTHERWISE INDICATED.
 - 2. PAINT SHOP-PRIMED ITEMS OCCURRING IN FINISHED AREAS.

3.07 SCHEDULE - PAINT SYSTEMS

- A. INTERIOR WALLS - LOW VOC/Low VOC, LATEX BASED EGG-SHELL UNLESS NOTED OTHERWISE IN FINIS SCHEDULE.
 - COAT #1 PRO MAR 200 0 VOC LATEX PRIMER B28W02600
 - COAT #2 PRO MAR 200 0 VOC INTERIOR EGG-SHELL B20W02651
 - COAT #3 PRO MAR 200 0 VOC INTERIOR EGG-SHELL B20W02651
- B. INTERIOR WOOD TRIM AND DOORS - LOW-ODOR/LOW VOC, LATEX BASED SEMI-GLOSS.
 - COAT #2 PRO MAR 200 0 VOC INTERIOR SEMI-GLOSS B31W02651
 - COAT #3 PRO MAR 200 0 VOC INTERIOR SEMI-GLOSS B31W02651
- C. INTERIOR METAL DOORS, FRAMES - LOW-ODOR/LOW VOC, LATEX BASED SEMI-GLOSS.
 - COAT #2 PRO MAR 200 0 VOC INTERIOR SEMI-GLOSS B31W02651
 - COAT #3 PRO MAR 200 0 VOC INTERIOR SEMI-GLOSS B31W02651
- D. INTERIOR STAIN AND CLEAR FINISH APPLICATION SCHEDULE
 - 1. WOOD SUBSTRATES, NON TRAFFIC SURFACES, INCLUDING WOOD TRIM DOORS SEMI-TRANSPARENT STAIN: TWO COATS.
 - 2. SATIN OIL-MODIFIED POLYURETHANE VARNISH OVER STAIN: MINIMUM TWO COATS OVER STAIN.

E. EXTERIOR METAL DOORS, FRAMES - SEMI-GLOSS ACRYLIC COATING

- COAT #2 PRO INDUSTRIAL ACRYLIC SEMI-GLOSS B96-650 SERIES
- COAT #3 PRO INDUSTRIAL ACRYLIC SEMI-GLOSS B96-650 SERIES

F. EXTERIOR MASONRY STANDARD PAINT SYSTEM

- COAT #1 A24W00300 - LOXON CONCRETE AND MASONRY INTERIOR/EXTERIOR LATEX PRIMER
- COAT #2 A82W00151 - A-100 EXTERIOR LATEX SATIN TOPCOAT
- COAT #3 A82W00151 - A-100 EXTERIOR LATEX SATIN TOPCOAT