
Partie 1 General

1.1 RELATED REQUIREMENTS

- .1 The list of Work in this division is indicative but non-limiting. It does not exclude Work described in other specification divisions shown on the drawings or required for full execution of the Work as intended on the drawings.
- .2 Section 03 30 00 Poured-in-place Concrete.
- .3 Section 05 12 23 Structural Steel for Buildings.
- .4 Section 05 50 00 Metal Fabrications.

1.2 REFERENCES

- .1 SSPC – Steel Structures Painting Council specification to assess work to be done.
 - .1 ASTM-4258:
 - .1 Standard concrete cleaning method to remove grease, dirt, laitance and loose debris prior to applying coating or membrane.
 - .2 This includes but is not limited to sweeping vacuuming, compressed air, water, detergent and steam.
 - .2 ASTM-4259:
 - .1 This method alters the surface of the concrete, removes laitance and loose debris to optimize anchoring prior to applying paint or a membrane.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data
 - .1 Submit manufacturer's printed product literature, specifications and datasheet. Product data sheets must include:
 - .1 Product characteristics.
 - .2 Performance criteria.
 - .3 Constraints.
- .3 Submit duplicate copies of WHMIS MSDS - Material Safety Data Sheets.
- .4 Quality assurance:
 - .1 Certificates: submit documents signed by manufacturer certifying that products and materials meet requirements for physical characteristics and performance criteria.
 - .2 Instructions: submit manufacturer's installation instructions and comply with written requirements, recommendations and specifications, including product data sheets, and handling, storage and installation instructions.

1.4 QUALITY ASSURANCE

- .1 Convene pre-installation meeting 1 week prior to beginning work of this Section in accordance with section 01 14 23 – Work Sequence and Section 01 32 16.07 - Construction Progress Schedule - Bar (GANTT) Chart to:
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordination with other construction subtrades.
 - .4 Review manufacturer's written installation instructions and warranty requirements.
- .2 Health and safety: take necessary construction health and safety measures in accordance with Section 01 35 29.06 – Health and Safety Requirements.
- .3 Samples:
 - .1 Submit sample in accordance with Section 01 45 00 – Quality Control.
 - .2 Construct mock-up of finish as indicated in plans.
 - .3 To judge quality of work, substrate preparation, operation of equipment and material application.
 - .4 Locate sample in designated area.
 - .5 Wait 24 hours before undertaking Work to allow Departmental Representative to examine sample.
- .4 Approved sample will serve as minimum standard for work. Mock-up may be integrated into final work. Remove sample and materials after use and when requested by Departmental Representative.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Waste Management and Disposal:
 - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
 - .3 Collect and separate for packaging material in appropriate on-site containers for recycling in accordance with Waste Management Plan.

1.6 ACCEPTABLE PRODUCTS AND MATERIALS

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

Partie 2 Products

2.1 ABRASIVE

- .1 Silicon sand, hard, abrasive, required size for sandblast cleaning, bagged, ready to use.

2.2 EQUIPMENT

- .1 Use equipment designed for sandblasting. Equipment must be of premium quality, efficient, with capacity for continuous operation during work hours, to avoid delays during work.
- .2 Minimum constant pressure 690 to 860 kPa at nozzle, venturi type, minimum 10 mm diameter. Hose must be minimum 32 mm in diameter.
- .3 Equipment and procedures must meet Canadian occupational health and safety standards.

2.3 TREATMENT TYPES

- .1 SSPC-SP 1

Solvent degreasing and cleaning

Solvent degreasing to remove oil, grease, soil and other contaminants from steel surfaces.

- .2 SSPC-SP 2

Hand tool cleaning

Hand tool cleaning to clean steel surfaces using non-power hand tools.

- .3 SSPC-SP 3

Power tool cleaning

Power tool cleaning of steel surfaces using power assisted hand tools.

- .4 SSPC-SP 5

NACE No. 1 white metal blast cleaning

When viewed without magnification is free of all visible oil, grease, dust, dirt, mill scale, rust or paint.

- .5 SSPC-SP 6

NACE No. 3 commercial blast cleaning

When viewed without magnification is free of all visible oil, grease, dust, dirt, mill scale, rust or paint. Generally limited no more than 33% of surface, remaining stains of rust, mill stains or paint. Rust and paint residue may remain in cavities if original surfaces were rusted.

- .6 SSPC-SP 7

NACE No. 4) brush-off blast cleaning

When viewed without magnification is free of all visible oil, grease, dust, dirt, mill scale, rust or paint. Tightly adherent mill scale, rust and coating may remain on surface. This type of blasting is specific for use on aluminum and galvanized steel surfaces.

- .7 SSPC-SP 8

Pickling

Method of preparing surface by chemical reaction, electrolysis, or both. When viewed without magnification, surfaces are free of mill scale and rust.

- .8 SSPC-SP 10

NACE No. 2 near-white blast cleaning

When viewed without magnification is free of all visible oil, grease, dust, dirt, mill scale, rust or paint. Generally limited no more than 5% of surface, remaining stains of rust, mill stains or paint.

- .9 SSPC-SP 11
Power tool cleaning to bare metal
When viewed without magnification is free of all visible oil, grease, dust, dirt, mill scale, rust, paint, oxyde, corrosive materials and other foreign matter. Minimal rust and paint residue may remain in corroded cavities if original surface was rusted.
- .10 SSPC-SP 12
Surface preparation and metal cleaning using water only.
- .11 SSPC-SP 14
Industrial blast cleaning.
- .12 SSPC-SP 15
Commercial grade power tool cleaning.

2.4 PREPARATION

- .1 Protection
- .2 Protect exterior untreated building surfaces and adjacent structures from markings and other damage by suitable non-staining covers or masking. If damaged, clean and restore such surfaces as directed by Departmental Representative.
- .3 Protect items that are permanently attached such as Fire Labels on doors and frames.
- .4 Protect factory finished products and equipment.
- .5 Protect building occupants and general public in and about building.
- .6 Remove light fixtures, surface hardware on doors, and other surface mounted equipment, fittings and fastenings prior to undertaking operations. Store items and re-install after painting is completed.
- .7 Move and cover exterior furniture and portable equipment as necessary to carry out painting operations. Replace as operations progress.

2.5 CLEANING

- .1 Clean in accordance with Section 01 74 11 – Cleaning.
- .2 On completion of installation and performance controls, remove surplus materials, waste, tools and equipment.

END OF SECTION