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Method Statements for Painting Work

REVISION HISTORY	ISSUE DATE	DESCRIPTION	REVIEW / STATUS

PREPARED BY:	REVIEWED BY:	APPROVED BY:
QA QC ENGINEER	SR. PROJECTS ENGINEER	OPERATIONS MANAGER

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1. Scope

The objective of this statement is to present proposed procedures that shall be adopted to apply the Painting System for [Project Name] on various surfaces according to specifications and material systems approved.

2. References

1. Specifications-Paintings
2. MAR # All Approved by Engineer

3. Definitions

PPE	Personal Protective Equipment
PM	Project Manager
PE	Project Engineer
QC	Quality Control
HSE	Health, Safety & Environment

4. Responsibilities

4.1. Health and Safety

- In addition, specific to this statement
- PPE, Hand protective gloves, face masks, safety goggles etc.
- Avoid direct skin contact.
- The use of oil paint protective cream shall also help to protect the skin.
- Safety Data Sheet (SDS) shall be referred to, for disposal and all more information.
- Adequate arrangements shall be made to provide safe & smooth access up to the top of the walls.
- Properly secured, inspected, and tagged scaffolding with appropriate net shading shall be provided, wherever applicable
- Personnel shall use a waist safety belt/harness while working at height.
- Immediate medical care shall be provided in the case, the eyes of some personnel are affected,
- due to paint splashes entering the eyes or due to some other reasons whatsoever
- The provision of a proper ventilation system shall be helpful and enhance the capability to breathe properly.

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- Only well-trained, experienced, and competent personnel shall be engaged to carry out the paintwork operation.

4.2. Safety Supervision

- A competent health and safety officer shall be present at the time to assess and take all the safety measures.
- Snag observed during its inspection shall be notified to the supervisor present, who must immediately, act to bring safety measures to an acceptable standard

5. Storage

All paint-related materials and substances shall be stored under protective cover, under extremely hot conditions & direct sunlight.

6. Materials

- Specified: Textile from Jotun or Equivalent.
- Approved: Berger Paint systems MAR dated.

7. Substrata/Foundation

- 1 Exterior Surfaces –Galvanized Steel, Polyurethane
- 2 Exterior Surfaces –Ferrous Metal, Polyurethane
- 3 Exterior Surfaces –Concrete Masonry, Polyurethane Textured
- 4 Interior Surfaces – Galvanized Steel, Alkyd
- 5 Interior Surfaces –Primed Ferrous Metal, Alkyd
- 6 Interior Surfaces –The Gypsum Wallboard and plaster, Acrylic, etc.

8. Method General

1.1 Marking of containers

All paint-related materials and substances shall be delivered in tidy and sealed containers, apparently labelled with the following essential information.

- Manufacturer’s name, initials, or recognized trademark
- Title and specification number
- Type of material such as primer or undercoat, finishing coat
- Colour reference from BS 4800
- Method of application
- Batch Number (BN)
- The date of manufacture and retest
- Check the validity date of use.

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- Always remember that the coating materials other than spray paints, bituminous paints and finely textured masonry paint shall be safely and tidily packed in good quality made containers not more than 5 litres of capacity.

1.2 Samples of the Paintwork

- Sample mock-up of the panel of 1 sqm in area shall be prepared for each type and colour of coating material to be used in work for approval
- The Sample material of each paper/fibre material minimum size of 500 x 500 millimetres, highlighting at least pattern repeat, where applicable shall be submitted for the client/main contractor's approval

1.3 Materials

- Preparatory Materials
- Paint removers, abrasive papers, and blocks cleaning agents, etching solutions, stopping, knotting, fillers, and other commodities shall be of types, recommended by the manufacturer of coating to be applied
- For the paint, the colourless spirit shall comply with British Standards (BS) 245
- Knotting shall comply with British Standards (BS) 1336
- Stopping and filler for woodwork shall be essentially approved Leadless oil-based type, recommended, and suggested for interior or exterior work.
- Stopping for woodwork to gain a coated finish shall be proprietary to match the surrounding work

1.4 Application Sequence for Woodwork

Following operational sequences shall be involved

- Priming Coat
- Filler Coat as per the requirement
- Intermediate Coat as per the scope of work
- Finishing Coat as per the recommendations and requirements

1.5 Application

Preparation of galvanized surfaces

- All contaminations such as dirt and contaminating matter/shall be cleaned from galvanized surfaces by an electrical tool cleaner.
- Cleaning shall not damage galvanizing.
- Contamination such as Oil or grease shall be cleaned from galvanized surfaces by an application of an emulsion cleaner.
- All zinc corrosion product contamination shall be cleared carefully.

1.6 Application of paint generally

- All paints shall be prepared and applied in strict accordance with the manufacturer's instructions.

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- Priming paints shall be applied by brush.
- Exposure of intermediate coats of paint for periods above a few days, shall not be permitted, except in case of work, delivered to site in a primed condition
- Dried films shall be free from bloom, shrinkage, sheerness, wrinkling, sagging, curtailng, discolouration, and extraneous matter
- No exterior or exposed paintwork shall be carried out under adverse weather conditions, during rain, mist, sandstorms nor, when relative humidity exceeds 80%
- Surfaces to be painted shall receive the first coat of paint as quickly as, possible after preparation has been completed
- In the case of metal surfaces, this shall preferably be conducted within one hour, but always before, the metal temperature drops to less than 3 degrees Celsius above the dew point and before rusting occurs

1.7 Method of coating

- Each coat shall be applied equally, over the complete surface.
- Skips runs, sags and drips shall be avoided.
- When these occur, shall be brushed out immediately, or materials removed and surface recoated.
- While painting work on beams and irregular surfaces starts from the edges and at extra passes made later.
- Each coat shall be allowed to dry for the time specified by the manufacturer, before other application of the succeeding coat Primer coat exposed to freezing, excess humidity, rain, dust etc.
- The Time interval, between application of coats, shall not exceed that specified for optimum results by the manufacturer
- All areas not specifically mentioned in the painting specification shall be finished to conform to adjacent comparable areas
- All fixtures and surfaces not to be painted shall be properly protected during application and upon completion of work, all paint and varnish removed from glass, fixtures, covering etc.
- All parts, such as pipe supports, seating/s and cleats, and back-to-back sections, which shall become inaccessible, after fabrication, should be treated on both surfaces with a full paint system, before final assembly, thus ensuring adequate protection.

1.8 Spray application

- All equipment for spray application shall be inspected and approved before the paint application begins.
- Proper moisture and oil traps shall be used and installed, between the air supply to each application unit.

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- Appropriate pressure regulators and gauges shall be used and or provided for proper air supply to application units accordingly.
- The spray gun shall be held at right angles to the surface and each pass overlaps the previous one by approximately 50%.

1.9 Brush application

- The paint brushes shall be of a style and good standard and quality that allow the appropriate application of the material.
- Flat brushes shall not be more than 100 millimetres wide.
- The paint brushes rushing shall be accomplished, so that a smooth coat as nearly uniform in thickness as practicable, is gained, without any detrimental marks
- When applying the solvent-type coating, care shall be taken to prevent the lifting of previous coats.

1.10 Film thickness

- Recommended film thickness for coating materials shall be carefully monitored, which should be examined with a proper film thickness gauge.
- Calibration for thickness range is to be inspected carefully twice a day.
- In hot weather conditions, such additional precautions as are necessary shall be taken to ensure that specified dry film thickness on priming or finish coats is obtained

1.11 Coating quality

- Coatings shall be free from pinholes, voids, bubbles, dust, foreign inclusions, and other holidays and all such defects shall be repaired.
- Before application of a coating, all damages to the previous coating shall be repaired with specified material.
- Upon completion of fabrication, whatever damage to the coating system shall be repaired

1.12 Test equipment

- Photographic standard-as per the state/country
- Coating thickness meter, such as algometer ‘Minilecture’ Model 150
- Wet fill thickness combs
- Hygrometer
- Maximum and minimum thermometer
- The next is Flow cup type B # 4 and with a timer Surface profile meter, such as Algometer ‘Roughness detector’

1.13 Epoxy coating work generally

- In addition to general requirements, the following conditions shall apply, wherever epoxy coating work is being carried out

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- Forced draught ventilation shall be used, wherever required for the needs of personnel or for drying out surfaces
- Operatives shall work in pairs
- Samples areas on substrate shall be prepared and coated for approval
- Make sure that the Paint shall be applied only to clean dry primed or previously, coated surfaces.
- All thick accumulations of paint shall be removed first before these dry up.
- No less than 2 coats shall be applied over primer by airless spray & no less than 3 coats by brush
- Each coat shall be distinctly different in colour from the primer or the previous coat.
- The Color of the final coat shall be as approved.
- Each coat shall be seen to have completely, covered proceeding, without 'misses' or pinholes or some areas visibly low in thickness.
- A high voltage pinhole detector shall also, be used to determine the integrity of coats
- Manufacturers of coating shall stipulate primer and epoxy recoat interval for all curing temperatures likely to be encountered and these be adopted with a maximum tolerance of +4 hours.

1.14 Epoxy coating for concrete and rendered surfaces

- No priming shall launch until the moisture material or application of the cementitious surface is less than 5% measured by a Wet Moisture meter.
- Likely, moisture measurements over primer or some epoxy inter-coat shall not be more than 1 % on a concrete scale of the instrument, when doubt tips are held against such painted surfaces just before the procedure of recoating
- Priming shall be applied by a suitable Nylon bristle brush or spray over the whole area to be coated at such thickness, that it may then be squeezed into the pores of the concrete.
- The excess shall be removed by the most suitable means, before application of high-build epoxy
- Total DFT of paint layer shall have a minimum specified value
- Whenever, a paint inspection gauge has been used and wherever, the coating has been otherwise, damaged for 50 mm around such damage.
- Adhesion tests shall be carried out on cured coating surfaces, using test equipment supplied following best practices.
- The resulting test specimens shall show no indication of poor adhesion to the substrate, residual laitance, or inter-coat adhesion weakness.

The following instrument shall be used

- a) 1-Adhesion Tester 0 to 35 kilograms / centimeters
- b) 1-DC high voltage holiday detector # 105 C

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- c) 1- Paint inspection gauge PIG
- d) 1-wet check moisture meter

9. Attachment

Risk Assessment