

SBC

METHOD STATEMENT

THERMO SHIELD® AQUA IR 2K

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1. PURPOSE

This Method Statement defines the procedures and technical requirements for the correct application of the **THERMO SHIELD® AQUA IR 2K** coating system.

The purpose of this document is to establish a standardized application procedure that ensures consistent workmanship, optimum coating performance, and long-term durability.

This document shall be used in conjunction with all applicable SBC technical documentation and project specifications.

2. SCOPE

This Method Statement applies to all projects involving the application of the **THERMO SHIELD® AQUA IR 2K** coating system.

It is applicable to coating works on:

- metal roofing systems;
- steel structures;
- concrete substrates;
- previously coated surfaces approved by SBC;
- other compatible substrates approved within the project specification.

The requirements of this document apply throughout the entire application process.

3. REFERENCES

The latest approved editions of the following documents shall be used together with this Method Statement:

- Technical Data Sheet (TDS)
- Product Description
- System Specification

- Application Guide
- Application Details
- Quality Control Plan
- Maintenance Guide
- Safety Data Sheet (SDS)

Where project specifications contain additional requirements, those requirements shall take precedence.

4. PERSONNEL REQUIREMENTS

Application work shall only be carried out by personnel who have received appropriate training and are competent in the application of protective coating systems.

Personnel shall:

- understand the product characteristics;
- be familiar with the applicable SBC documentation;
- use the required personal protective equipment (PPE);
- comply with all applicable health and safety regulations.

The Contractor shall ensure that all personnel are adequately supervised throughout the project.

5. REQUIRED EQUIPMENT

The following equipment shall be available before work commences:

- electric mixing equipment;
- calibrated measuring containers;
- rollers;
- brushes;
- airless spray equipment (where applicable);
- Wet Film Thickness (WFT) gauge;
- Dry Film Thickness (DFT) gauge;
- thermometer;
- hygrometer;
- dew point meter;
- cleaning equipment.

All measuring instruments shall be maintained in good condition and calibrated where required.

6. MATERIAL INSPECTION

Before application begins, the following shall be verified:

- product identification;
- batch number;
- expiry or shelf-life date;
- packaging integrity;
- storage conditions;
- availability of the latest Technical Data Sheet.

Damaged, contaminated or expired materials shall not be used.

7. SURFACE PREPARATION

Before coating application, the substrate shall be:

- clean;
- dry;
- structurally sound;
- free from dust;
- free from grease;
- free from oil;
- free from loose or poorly adhered materials.

Mechanical cleaning shall be carried out where necessary.

All repairs shall be completed before coating application begins.

8. ENVIRONMENTAL CONDITIONS

Application shall only proceed when environmental conditions comply with the requirements specified in the Technical Data Sheet.

The following conditions shall be monitored:

- ambient air temperature;
- substrate temperature;
- relative humidity;
- dew point;

- precipitation;
- wind conditions.

Application shall not commence when environmental conditions fall outside the specified limits.

9. MATERIAL MIXING

THERMO SHIELD® AQUA IR 2K is supplied as a two-component coating system.

Components shall only be mixed in the proportions specified in the Technical Data Sheet.

Mixing shall be carried out using suitable mechanical equipment until a uniform and homogeneous material is obtained.

Once mixed, the material shall be applied within the specified pot life.

Additional thinning or modification of the material shall not be carried out unless specifically permitted in the Technical Data Sheet.

10. APPLICATION PROCEDURE

The coating may be applied by:

- roller;
- brush;
- airless spray equipment, where approved.

Each coat shall be applied uniformly to achieve the specified film thickness.

Particular attention shall be given to:

- edges;
- corners;
- fasteners;
- joints;
- penetrations;
- welds;
- other critical details.

Where required, a stripe coat shall be applied prior to the full coating application to ensure complete protection of critical areas.

11. RECOAT INTERVALS

The minimum and maximum recoat intervals shall comply with the requirements specified in the latest approved Technical Data Sheet (TDS).

Before applying subsequent coats, it shall be verified that the previous coat:

- has reached the required curing stage;
- is clean and dry;
- is free from contamination;
- is suitable for overcoating.

If the maximum recoat interval has been exceeded, appropriate surface preparation shall be carried out before additional coating is applied.

12. QUALITY CONTROL DURING APPLICATION

Quality control shall be performed continuously throughout the application process.

The following items shall be monitored:

- substrate condition;
- environmental conditions;
- mixing ratio;
- pot life;
- application technique;
- wet film thickness (WFT);
- dry film thickness (DFT), where applicable;
- coating continuity;
- treatment of critical details;
- visual appearance.

All inspection results shall be recorded in accordance with the project Quality Control Plan.

13. HEALTH AND SAFETY REQUIREMENTS

All work shall be carried out in accordance with applicable occupational health and safety regulations.

Personnel shall wear appropriate Personal Protective Equipment (PPE), including where required:

- protective gloves;
- safety glasses or face protection;
- protective clothing;
- safety footwear;
- respiratory protection.

Work areas shall be maintained in a safe condition throughout the project.

Emergency procedures shall be available at the work site and all personnel shall be familiar with them.

14. ENVIRONMENTAL PROTECTION

Application activities shall be carried out in a manner that minimizes environmental impact.

Particular attention shall be given to:

- preventing product spills;
- minimizing material waste;
- protecting drainage systems;
- preventing contamination of soil and water;
- separating recyclable and hazardous waste.

Any accidental release of material shall be cleaned immediately using appropriate procedures.

15. WASTE MANAGEMENT

Waste generated during application shall be handled in accordance with applicable legislation and local environmental regulations.

Typical waste includes:

- empty containers;
- unused coating material;
- contaminated cleaning materials;
- used absorbent materials;
- disposable personal protective equipment.

Hazardous waste shall be collected separately and disposed of only by authorized waste management contractors.

16. SITE CLEANING AND PROJECT COMPLETION

Upon completion of the coating works, the work area shall be cleaned and restored to a safe condition.

Before project completion, it shall be confirmed that:

- all coating work has been completed;
- temporary equipment has been removed;

- the work area is clean;
 - no damage has occurred to the completed coating system;
 - all inspections have been completed;
 - all required documentation is available.
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17. PROJECT DOCUMENTATION

The following records shall be maintained throughout the project, where applicable:

- material delivery records;
- batch identification records;
- mixing records;
- environmental monitoring records;
- inspection reports;
- film thickness measurements;
- repair records;
- photographic records;
- quality control documentation;
- project handover documentation.

Project records shall be complete, accurate and readily retrievable.

18. DOCUMENT CONTROL

This Method Statement forms part of the controlled documentation of the SBC Quality Management System.

Revisions shall only be issued through the approved document control process.

Only the latest approved revision of this document shall be used during project execution.

Printed copies are considered uncontrolled unless specifically identified as controlled copies.