

Method Statement for Oil-Based Mould Release Agent BC Tec MAR Release

Purpose:

The purpose of this method statement is to outline the procedure for the application of oil-based mould release agents (MAR) BC tec Mar release in construction works to ensure proper release of concrete elements from formwork, while minimizing surface defects and ensuring safe practices.



Scope:

This method covers the application of oil-based mould release agents on formwork before pouring concrete. It applies to all personnel involved in concrete works, including contractors and supervisors.

References:

Manufacturer's technical data sheets for the specific oil-based release agent.

Local health and safety regulations.

Materials and Equipment:

Oil-based mould release agent (MAR).
Brushes, rollers, or spray equipment (based on the formwork type).
Clean rags or sponges for wiping excess material.
Personal protective equipment (PPE) such as gloves, goggles, and respirators (if required by product safety guidelines).
Drip trays or containers (to catch any excess drips).
Adequate ventilation systems (if working indoors).

Health and Safety:

Read and follow the Safety Data Sheet (SDS) for the specific oil-based release agent.

Ensure all personnel wear appropriate PPE.

Avoid inhalation of fumes or contact with skin and eyes.

Ensure proper disposal of waste materials in compliance with local regulations.

Maintain fire safety precautions, as oil-based agents may be flammable.

Procedure:

Preparation:

Inspect formwork surfaces for any debris, rust, or contaminants. Clean them thoroughly to ensure smooth concrete finishes.

Ensure that the formwork is dry before application.

Stir or shake the oil-based mould release agent thoroughly to ensure a homogeneous mixture.

Application:

Select the appropriate method of application: brush, roller, or spray.

Brush/roller method: This is ideal for small or irregular surfaces. Apply the oil-based release agent evenly in a thin layer, ensuring no excess puddles or runs.

Spray method: For large or flat surfaces, spraying is often faster. Use a low-pressure spray to apply a thin, even coat.

Apply the release agent uniformly to avoid uneven concrete finishes or staining.

Ensure that no excess release agent is left on the formwork, as this may result in staining or poor surface quality of the concrete.

Curing Time:

Allow the oil-based release agent to dry on the formwork as per the manufacturer's guidelines. Drying times may vary depending on the product and environmental conditions (temperature, humidity).

Concrete Pouring:

Once the oil-based release agent has dried, concrete can be poured into the formwork.

Avoid disturbing the release agent during the concrete pouring process.

Quality Control:

Ensure the formwork has been properly coated with the release agent before pouring concrete.

Visually inspect for uniformity of the release agent and check for any missed areas.

Confirm no excess material remains that could cause defects in the concrete finish.

Cleanup and Waste Disposal:

Clean all tools and equipment used for the application of the mould release agent with appropriate cleaning solvents.

Dispose of any used rags, containers, or waste materials in compliance with environmental and local regulations.

Environmental Considerations:

Take precautions to avoid any spillage of the release agent into the surrounding environment.

Use drip trays where necessary to catch any excess material.

Follow local regulations regarding the disposal of oil-based products to prevent environmental contamination.

Responsibilities:

Site Supervisor: Ensure that the procedure is followed and that workers are trained in the proper handling of oil-based release agents.

HSE Officer: Monitor for health and safety compliance, especially regarding PPE usage and environmental safeguards.

Applicators/Workers: Follow this method statement and ensure a uniform application of the mould release agent.

Approval and Sign-Off:

This method statement has been reviewed and approved by the project management team and health and safety officer.

Approved by: Date: Signature:

This document ensures that the use of oil-based mould release agents is safe, efficient, and compliant with both technical and environmental standards.