

# Technical Data Sheet

## Eco Fix Oil Concrete Form Oil

### PRODUCT DESCRIPTION

**Eco Fix Oil Concrete Form Oil** is a premium, 100% readily biodegradable, plant-oil-based form release agent engineered for use on all types of timber, metal, and plastic forms and moulds. Formulated to be pH neutral, it delivers advanced release, cleaning, and corrosion-inhibiting properties.

Upon contact with the alkaline ingredients in wet concrete, the oil chemically reacts (saponifies) to form natural, biodegradable soaps. These soaps maintain a high-performance release film between the curing concrete and the formwork, ensuring an exceptionally clean breakout. It leaves zero traces, blemishes, discoloration, or staining on the final concrete finish, making form cleaning highly efficient.

The product has also found uses beyond form release, due to its inherently good lubricating and rust preventing/removing properties, having a viscosity index suited to occasional use mechanisms such as those found in scaffolding applications.

### KEY FEATURES & BENEFITS

- **Advanced Chemical Release:** Saponification creates a highly uniform barrier film that prevents mechanical bonding and minimizes surface blowholes or defects.
- **Active Rust Removal:** Unique properties actively remove rust build-up on steel and iron forms, producing a clean, polished interface over repetitive uses.
- **Stain-Free Architectural Finish:** Leaves zero residue or discoloration, making it perfectly suited for high-visibility architectural precast, engineered blocks, and concrete test cylinders.
- **100% Readily Biodegradable:** Eco-friendly, non-toxic, and pH neutral formulation reduces site environmental liability and ensures optimal operator safety.
- **Highly Economical:** Concentrated performance means an exceptionally thin application achieves maximum coverage and technical effect.

### REGULATORY & FOOD GRADE APPROVALS

Eco Fix Oil Concrete Form Oil is approved by the New Zealand Ministry for Primary Industries (MPI) for use in demanding and sensitive commercial environments:

- **MPI Approved C 15** (*All Animal Products Except Dairy*): Permitted for use during food processing to lubricate moving equipment parts where incidental contact or seal leakage may occur.
- **MPI Approved C 26** (*All Animal Products Except Dairy*): Permitted for use directly on food contact surfaces as a release agent or an anti-rust film.
- **MPI Approved C 61** (*All Animal Products Except Dairy*): Permitted for application in potable (drinking) water systems, subject to final active element concentration limits.

## TECHNICAL SPECIFICATIONS

| Property                  | Value / Specification                              |
|---------------------------|--|
| Base Stock                | 100% Plant-Derived Oil                             |
| Biodegradability          | 100% Readily Biodegradable                         |
| pH Level                  | Neutral  |
| Formwork Compatibility    | Timber, Metal, Rigid Plastic, and Composite Moulds |
| Staining / Discolouration | None (Non-staining)                                |
| Application Temperature   | Ambient operational temperatures                   |

## APPLICATION GUIDELINES

### Surface Preparation

Ensure formwork surfaces are clean and free of heavy loose scale, dirt, or hardened concrete build-up before the initial application. Note: Initial applications on rusted steel forms will loosen scale, which should be wiped clean prior to pouring to achieve optimal surface finish.

### Application Method

Can be applied easily using a trigger spray, low-pressure industrial pump sprayer, or by traditional brush and roller methods.

### Application Rate & Instructions

Apply a thin, uniform, continuous wet coating across all surfaces to be released or where concrete splatter protection is desired. Avoid heavy accumulation or pooling in form corners. Apply only the minimum quantity required to achieve the technical release film. The product is highly stable and can be applied well in advance or moments prior to pouring.

### Post-Release Cleaning

Formwork requires minimal effort to clean post-pour. When used on food contact surfaces under MPI C 26 approval, the surface must be wiped or adequately drained after application so that no free standing substance remains prior to food processing.

## PACKAGING & LOGISTICS

Distributed nationwide by Ecofixoil Limited. Packaging configurations include:

- 4 Litre Jerrycan
- 20 Litre Drum
- 200 Litre Commercial Drum

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**Ecofixoil Limited**

105 Thorn Road, Dovedale,  
Tasman 7096, New Zealand

**Phone:** 03 970 5236

**Email:** [info@ecofixoil.co.nz](mailto:info@ecofixoil.co.nz)

**Web:** [www.ecofixoil.co.nz](http://www.ecofixoil.co.nz)

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