

CHEMFIT MOULDEASE 7000

Ready-to-Use, Oil Based Shutter/Mould Release Agent – For Improved Fair Faced Concrete Finish & Extended Formwork Life

PRODUCT DESCRIPTION

ChemFit MouldEase 7000 is a high-performance, ready-to-use oil based mould release agent specifically formulated for concrete formwork and shuttering applications. This advanced release agent creates a uniform, non-stick barrier between the concrete and formwork surface, ensuring clean and effortless stripping while producing an excellent finish on fair faced concrete. The specialized oil based formulation penetrates and protects formwork surfaces including steel, timber, and plastic, significantly extending their service life while preventing concrete adhesion and reducing surface defects such as honeycombing, pitting, and staining.

This product is designed for use in all types of formwork including precast, prestressed, and in-situ concrete construction where high-quality surface finish and formwork protection are required.

PRIMARY APPLICATIONS

ChemFit MouldEase 7000 is recommended for use in conditions such as:

- Fair faced concrete (architectural concrete) requiring superior surface finish
- Precast concrete elements (beams, columns, panels, slabs, pipes)
- Prestressed concrete components
- In-situ cast concrete structures and foundations
- Steel formwork and shuttering systems
- Timber formwork and plywood shuttering
- Plastic and composite formwork panels
- Tunnel formwork and slipform operations
- Bridge deck and viaduct construction
- Retaining walls and noise barriers
- Staircases and architectural features
- Concrete pipes, manholes, and culverts
- Ready-mix concrete products

KEY FEATURES AND BENEFITS

- **Ready-to-use** – No dilution or mixing required; apply directly from container
- **Excellent release properties** – Provides clean, effortless stripping without concrete adhesion
- **Superior fair faced finish** – Produces smooth, uniform, blemish-free concrete surfaces
- **Extends formwork life** – Protects steel from corrosion, timber from moisture absorption, and plastic from degradation
- **Prevents concrete buildup** – Eliminates need for frequent formwork cleaning
- **Reduces surface defects** – Minimizes honeycombing, pitting, bug holes, and staining
- **Oil based formulation** – Provides superior coverage and protection compared to water-based alternatives
- **Non-staining** – Does not discolor concrete surfaces when properly applied
- **Compatible with all formwork materials** – Works on steel, timber, plastic, aluminum, and composite surfaces
- **Good coverage rates** – 25 m²/L on timber, 50 m²/L on steel/plastic
- **Protects against rust** – Provides corrosion protection for steel formwork during storage and use
- **Improves production efficiency** – Reduces stripping time and formwork cleaning between pours

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Liquid
Color	Light amber to clear
Form	Ready-to-use liquid
Basis	Oil based (mineral oil blend)
Specific Gravity	0.85 – 0.92 at 25°C
Viscosity	Low to medium (easy spray application)
Flash Point	> 100°C (non-flammable under normal conditions)
Volatile Organic Compounds	Low to moderate
Freezing Point	< -10°C
Stain Potential	Non-staining when properly applied
Compatibility	Steel, timber, plastic, aluminum, composite formwork
Application Temperature	+5°C to +50°C

PACKAGING AND STORAGE

Packaging:

- 200 L drums
- 1000 L IBCs (Intermediate Bulk Containers)

Storage:

- Store in original sealed containers at +5°C to +40°C
- Protect from direct sunlight, extreme heat, and open flames
- Keep container tightly closed when not in use
- Store away from oxidizing agents and strong acids
- Ground containers when transferring to prevent static discharge

Shelf life: 24 months from date of manufacture when stored properly

DOSAGE AND COVERAGE RATES

The recommended coverage of **ChemFit MouldEase 7000** varies by formwork material type.

Formwork Material	Coverage Rate
Timber / Plywood formwork	25 m ² per liter of product
Steel formwork	50 m ² per liter of product
Plastic formwork	50 m ² per liter of product
Aluminum formwork	50 m ² per liter of product
Composite formwork	40 – 50 m ² per liter (depending on surface texture)

- **Coverage per 200 L drum (steel/plastic):** Approximately 10,000 m² of formwork surface
- **Coverage per 200 L drum (timber):** Approximately 5,000 m² of formwork surface
- **Coverage per 1000 L IBC (steel/plastic):** Approximately 50,000 m² of formwork surface
- **Coverage per 1000 L IBC (timber):** Approximately 25,000 m² of formwork surface

NOTE: Coverage rates are approximate and may vary depending on formwork surface texture, porosity, application method, and number of pours between reapplication. For new, highly absorbent timber formwork, initial application may require higher coverage; subsequent applications will achieve standard coverage. For steel formwork with complex detailing or rust, slightly higher application rates may be required.

APPLICATION GUIDELINES

ChemFit MouldEase 7000 should be applied as a thin, even film to clean, dry formwork surfaces before concrete placement. For best results, ensure the formwork surface is free from dust, dirt, grease, old concrete residue, and previous release agent buildup. The product can be applied by low-pressure spray (hand-held sprayer or airless sprayer), brush, roller, or rag. Spray application is recommended for large formwork areas to achieve uniform, thin coverage. Apply a thin, uniform film – do not over-apply as excess product can cause concrete surface staining or surface softening. For steel formwork, coverage of 50 m²/L typically requires a very thin film (approximately 20 microns wet film thickness). For timber formwork, higher application rates are required due to surface porosity. Allow the product to stand for a few minutes after application to allow any excess to drain or be absorbed. For steel formwork, no drying time is required; concrete can be placed immediately after application. For timber formwork, allow 5-15 minutes for absorption before concrete placement. For multiple concrete pours using the same formwork, reapply the release agent before each pour. Clean formwork surfaces periodically to remove any concrete residue buildup using a scraper or pressure washer. Do not apply to wet or damp formwork surfaces. For vertical and overhead formwork, ensure even coverage to prevent concrete adhesion in under-sprayed areas. For fair faced concrete requiring architectural finish, spray application with a fine nozzle produces the most uniform results.

HEALTH AND SAFETY

ChemFit MouldEase 7000 may cause mild eye and skin irritation. If eye contact occurs, rinse thoroughly with water for 15 minutes. For skin contact, wash with soap and water. If swallowed, do not induce vomiting; instead rinse the mouth and drink water, then seek medical advice. Use gloves, safety glasses, and protective clothing during handling. Avoid prolonged or repeated skin contact. Ensure adequate ventilation when using in enclosed spaces. Do not smoke or use near open flames. Store away from oxidizing agents. Refer to the Safety Data Sheet for detailed information.

CLEANG OF TOOLS

Clean all spray equipment, brushes, rollers, and containers with mineral spirits or suitable solvent immediately after use. Dispose of cleaning materials in accordance with local regulations. Do not discharge into drains or watercourses.

APPROVALS AND STANDARDS

ChemFit MouldEase 7000 conforms to the following standards:

- Ready-to-use oil based shutter/mould release agent for concrete formwork
- Suitable for use with steel, timber, plastic, aluminum, and composite formwork
- Provides superior finish for fair faced concrete applications

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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