

# CHEMFIT RELEASE ECO MR200

**Concentrated Anti-Corrosive Shutter Release Agent – For Steel, Timber & Plastic Formwork**

## PRODUCT DESCRIPTION

**ChemFit ReleaseEco MR200** is a high-performance, concentrated anti-corrosive shutter release agent specifically formulated for concrete formwork applications. This advanced concentrated formulation provides excellent release properties while offering superior corrosion protection for steel formwork. The concentrated nature allows for dilution with water, reducing transportation costs and storage requirements while maintaining exceptional performance on steel, timber, and plastic formwork surfaces. The anti-corrosive additives protect steel formwork from rust and degradation, significantly extending service life.

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

## PRIMARY APPLICATIONS

**ChemFit ReleaseEco MR200** is recommended for use in conditions such as:

- Steel formwork and shuttering systems requiring corrosion protection
- Timber formwork and plywood shuttering
- Plastic and composite formwork panels
- Precast concrete elements (beams, columns, panels, slabs)
- Prestressed concrete components
- In-situ cast concrete structures
- Tunnel formwork and slipform operations
- Bridge deck and viaduct construction
- Retaining walls and structural elements
- Concrete pipes, manholes, and culverts
- Architectural and fair faced concrete
- Formwork storage and protection between uses

## KEY FEATURES AND BENEFITS

- **Concentrated formulation** – Dilute with water; reduces shipping and storage costs
- **Anti-corrosive properties** – Protects steel formwork from rust and corrosion during use and storage
- **Excellent release performance** – Provides clean, effortless stripping without concrete adhesion
- **Versatile application** – Works on steel, timber, plastic, and composite formwork
- **Cost-effective** – High dilution ratio provides excellent coverage per liter of concentrate
- **Water-based** – Environmentally friendly, low odor, and easy to clean
- **Extends formwork life** – Protects timber from moisture absorption and steel from corrosion
- **Prevents concrete buildup** – Reduces formwork cleaning between pours
- **Non-staining** – Does not discolor concrete surfaces when properly diluted and applied
- **Good coverage rates** – 25 – 60 m<sup>2</sup>/L depending on formwork type and dilution
- **Easy to apply** – Can be sprayed, brushed, or rolled onto formwork surfaces
- **Reduces formwork maintenance** – Extends time between deep cleaning cycles

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Liquid concentrate
Color	Milky white to off-white
Form	Concentrated liquid
Basis	Water-based with anti-corrosive additives
Specific Gravity	1.00 – 1.05 at 25°C
pH Value	7.0 – 9.0
Dilution Ratio	1:3 to 1:10 with water (depending on formwork type)
Flash Point	Non-flammable
VOC Content	Low
Freezing Point	0°C (protect from freezing)
Corrosion Protection	Provides rust protection for steel formwork
Compatibility	Steel, timber, plastic, aluminum, composite formwork
Application Temperature	+5°C to +50°C

## PACKAGING AND STORAGE

### Packaging:

- 20 L pails / drums
- 200 L drums

### Storage:

- Store in original sealed containers at +5°C to +35°C
- Protect from direct sunlight, frost, and extreme heat
- Keep container tightly closed when not in use
- If frozen, thaw completely and agitate before use
- Do not store diluted product for extended periods

**Shelf life:** 12 months from date of manufacture when stored properly

## DOSAGE AND COVERAGE RATES

The recommended coverage of **ChemFit ReleaseEco MR200** varies by formwork material type and dilution ratio.

Formwork Material	Dilution Ratio (Concentrate:Water)	Coverage Rate (diluted)
Steel formwork	1:8 to 1:10	50 – 60 m <sup>2</sup> per liter of diluted product
Plastic formwork	1:8 to 1:10	50 – 60 m <sup>2</sup> per liter of diluted product
Timber / Plywood formwork	1:3 to 1:5	25 – 40 m <sup>2</sup> per liter of diluted product
Aluminum formwork	1:8 to 1:10	50 – 60 m <sup>2</sup> per liter of diluted product
Composite formwork	1:6 to 1:8	40 – 50 m <sup>2</sup> per liter of diluted product

### Coverage per container (based on 1:8 dilution for steel formwork):

- Per 20 L pail (concentrate): Produces 180 L of diluted product, covering approximately 9,000 – 10,800 m<sup>2</sup> of steel formwork
- Per 200 L drum (concentrate): Produces 1,800 L of diluted product, covering approximately 90,000 – 108,000 m<sup>2</sup> of steel formwork

#### Coverage per container (based on 1:4 dilution for timber formwork):

- Per 20 L pail (concentrate): Produces 100 L of diluted product, covering approximately 2,500 – 4,000 m<sup>2</sup> of timber formwork
- Per 200 L drum (concentrate): Produces 1,000 L of diluted product, covering approximately 25,000 – 40,000 m<sup>2</sup> of timber formwork

**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, use lower dilution ratio (1:3) and higher application rate. For smooth steel formwork, higher dilution (1:10) is typically sufficient.**

### APPLICATION GUIDELINES

**ChemFit ReleaseEco MR200** should be diluted with clean water before use according to the recommended dilution ratios. For steel and plastic formwork, dilute 1 part concentrate with 8 to 10 parts water (1:8 to 1:10). For timber and plywood formwork, dilute 1 part concentrate with 3 to 5 parts water (1:3 to 1:5). Always add concentrate to water while stirring to ensure uniform mixing. Do not dilute more than 1:10 as release performance may be compromised. The diluted product 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, 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 softening. For steel formwork, allow the applied film to dry for 5-10 minutes before concrete placement. For timber formwork, allow 10-20 minutes for absorption and drying. 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. For steel formwork storage between uses, apply a slightly stronger concentration (1:5 to 1:8) to provide corrosion protection during storage. Do not apply to wet or damp formwork surfaces. For best results in fair faced concrete applications, spray application with a fine nozzle produces the most uniform results.

### HEALTH AND SAFETY

**ChemFit ReleaseEco MR200** is not classified as hazardous under normal use. 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. Refer to the Safety Data Sheet for detailed information.

## CLEANG OF TOOLS

Clean all spray equipment, brushes, rollers, and containers with water immediately after use. Dried product may require warm water and mild detergent for removal. Do not discharge concentrated product into drains or watercourses.

## APPROVALS AND STANDARDS

ChemFit ReleaseEco MR200 conforms to the following standards:

- Concentrated anti-corrosive shutter release agent for concrete formwork
- Suitable for use with steel, timber, plastic, aluminum, and composite formwork
- Provides corrosion protection for steel formwork during use and storage

## 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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