

Product Data Sheet

CasTech Rel UR

July-2026, Ver. 02.01

Universal Oil-Based Form Release Agent

DESCRIPTION

CasTech Rel UR is a high-performance, oil-based form release agent specially formulated to provide clean, fast, and easy release of concrete from formwork. It consists of carefully selected mineral oils, corrosion inhibitors, and wetting agents that produce a smooth, stain-free concrete surface while extending the service life of formwork.

CasTech Rel UR is suitable for use in hot and tropical climates and is recommended for both precast and cast-in-place concrete applications.

Typical Uses

CasTech Rel UR is suitable for:

- Steel formwork
- Timber formwork
- Plywood formwork
- Plastic moulds and shutters
- Precast concrete moulds
- Concrete batching plant equipment
- Ready-mix truck drums and chutes (to prevent concrete build-up)

Advantages

- Ready to use—no dilution required
- Provides clean and easy stripping of formwork
- Produces high-quality fair-faced concrete finishes
- Reduces blowhole formation
- Minimizes concrete adhesion to formwork
- Protects steel formwork against corrosion
- Extends the service life of formwork
- Non-staining to concrete surfaces when applied correctly
- Economical due to high coverage rate
- Suitable for use under hot weather conditions

TYPICAL PROPERTIES

Consistence	Liquid
Appearance	Light yellow to brown liquid
Base	Oil Base
Chloride Content	Nil (According to EN 934-2)
Specific Gravity	0.99±0.02@ 25°C
VOC	Low
Flash Point	>60°C (Typical)
Application Temperature	+10°C-+50°C

APPLICATION INSTRUCTIONS

CasTech Rel UR is supplied ready for use.

Before application:

- Ensure formwork is clean.
- Remove dust, laitance, rust, old concrete residues, and standing water. Apply one thin, uniform coat using:
 - Airless spray
 - Low-pressure spray
 - Roller
 - Brush

Avoid excessive application or ponding. Remove surplus material using a clean cloth or sponge.

For best performance, apply immediately after cleaning the formwork and allow the coating to remain undisturbed before concrete placement.

Timber formwork performance improves after repeated applications due to gradual impregnation of the wood surface.

PACKAGING

- 20 L Pail
- 200 L Drum
- 1000 L IBC (Available upon request)

SHELF LIFE

12 months from the date of manufacture when stored in

CasTech MIDDLE EAST FZE

T6-04, Sharjah Airport Free Zone, Sharjah, UAE

P.O. Box: 121661 Tel.: +971-6-5489207

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unopened original containers.

STORAGE

Store in a dry, well-ventilated area between +5°C and +45°C.

Protect from:

- Direct sunlight
- Heat sources
- Frost

Keep containers tightly closed when not in use.

IMPORTANT NOTES

- Do not over-apply.
- Excess material may cause staining or surface discoloration.
- Protect treated formwork from rain before concrete placement.
- Always conduct a site trial before large-scale application.
- Do not mix with water or other solvents.

HEALTH & SAFETY

Avoid prolonged skin contact.

Wear suitable:

- Protective gloves
- Safety goggles
- Protective clothing

Keep away from heat, sparks, and open flames.

Refer to the latest Safety Data Sheet (SDS) before use.

Plywood	35–50 m ² /L
Steel	50–70 m ² /L
Plastic	50–70 m ² /L

Actual coverage may vary depending on surface texture, porosity, and application method.

TECHNICAL SUPPORT

CasTech provides comprehensive technical assistance, including:

- Product selection
- Site application guidance
- Technical troubleshooting
- After-sales support

For further information, please contact your local CasTech representative.

DISCLAIMER

The information contained in this Technical Data Sheet is based on laboratory testing and practical experience under controlled conditions. Actual performance may vary depending on substrate condition, application method, environmental conditions, and workmanship. Users are responsible for verifying the suitability of the product for the intended application. CasTech reserves the right to modify product specifications without prior notice as part of its continuous product improvement program.

TECHNICAL PERFORMANCE

Formwork Type	Typical Coverage
Timber	25–35 m ² /L

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