

Technical Datasheet

IZOZEN® IZOREL 1

OIL BASED, ANTI-CORROSIVE SHUTTER RELEASE AGENT

Description

IZOZEN® IZOREL 1 is an oil based shutter / mold release agent that when applied to formwork provides for clean, fast and easy striking.

IZOZEN® IZOREL 1 provides the following properties:

- Allows clean, easy striking
- Extends the life of formwork
- Improves finishing for fair faced concrete
- Reduces blow hole formation
- Does not promote rusting of steel formwork

Suitable for use in hot and tropical climatic conditions

Fields of application

IZOZEN® IZOREL 1 is mainly used for

- Steel shuttering
- Plywood shutters
- High density plastic shutters

Technical data

Form:	Blend of refined mineral oils and anti-corrosive additives
Colors:	Yellowish to amber liquid
Specific Gravity:	~0.85 kg/l (25°C)

Shelf life – Storage

12 months from date of production if stored properly
Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.

Protect from direct sunlight and frost.

Directions for use

IZOZEN® IZOREL 1 is supplied ready to use. Shutter surfaces must be clean and free from moisture, dirt and laitance. Rust and concrete residues must be removed prior to application.

Apply one coat by brush, roller, cloth or spray. The product needs to be applied thin and even onto the shuttering, always avoiding excess of material. If after the application of the release agent there are still puddle-type surpluses on the shuttering, then these must be removed with a cloth or rubber scraper. Excess application will tend to run down on vertical surfaces and pool at the bottom. Over application may lead to staining of the hardened concrete. The shuttering surface must be completely covered, with an even film, without puddles.

Do not water the applied coating even when the surface is dry. IZOZEN® IZOREL 1 should be allowed to evaporate before concreting takes place. Clean all equipment and tools used with detergent and lukewarm water.

Consumption

Timber:	~24-26 m ² /l
Steel or plastic:	~60-62 m ² /l

Coverage depends on wind, humidity, temperature and shuttering overall conditions. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..

Packaging

20 L, 200 L Drum, 1000 L flowbin.

Bulk supply in tanker trucks possible on request

Remarks

After application of IZOZEN® IZOREL 1 the treated area must be protected from rain.

Before concreting, preliminary tests are recommended to optimize the procedure for each project.

Please consult the technical department of IZOZEN for better understanding of use

IZOZEN® Health and Safety Message

- Always wear safety goggles, Mask, Helmet when working with hazardous materials.
- Follow safety procedures at all times when using power tools.
- Make sure your work area is tidy and free of trip hazards.
- Watch where you're walking – don't run in the workplace!
- Always use the appropriate lifting technique when moving heavy objects.
- Keep jewelry and other loose objects away from machinery.
- Don't eat or drink near hazardous materials.
- Report unsafe conditions immediately to your supervisor.
- Wear the correct clothing for the job – no loose clothing or jewelry!
- Take regular breaks and stay hydrated while working.
- Always be aware of your surroundings.
- Always use personal protective equipment when working with chemicals.

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 2025