

Product Data Sheet

CasTech Rel-2000

Nov-2025, Ver. 01.01

Water Base Mold Releasing agent

DESCRIPTION

CasTech REL-2000 is a high-performance release agent designed to tackle the common appearance issues of sticky skin and pockmarked surfaces that often arise during the production of pumped concrete pipe piles and square piles. Engineered for stability and superior performance, this advanced formula ensures a smooth and flawless finish, significantly enhancing the quality and appearance of your concrete products. By simply using CasTech REL-2000 resulting in a bright and shiny surface after demolding. Whether you're working with pipe piles or other concrete pre-components, CasTech REL-2000 delivers consistent, reliable results, making it an essential product for achieving top-tier quality in your production processes.

Typical Uses

- Concrete pipe piles
- Square piles

Advantages

- Prevents surface defects
- Improves production efficiency
- Improves surface finish
- Enhances aesthetic appeal
- Provides stable and consistent results
- Cost-effective with easy application

TYPICAL PROPERTIES

Consistence	Liquid
Colour	Yellow Emulsion
Specific Gravity	0.99±0.02@ 25°C
Application Temperature	+10°C-+50°C

Standard

CasTech REL-2000 complies with ASTM D 1475

Dosage

Dosage rates will vary based on the desired Application.

Overdosing

Overdosing CasTech REL-2000 by using more than the recommended can lead to several problems, including surface residue that affects appearance, potential interference with the curing process, inconsistent

finishes, and economic inefficiency due to wasted product. Adhering to the correct dosage ensures optimal performance and a high-quality finish

Curing

Curing methods to protect concrete surfaces should be adopted.

Compatibility

CasTech REL-2000 is compatible with a wide range of concrete formulations and mould materials. It is designed to work effectively with various types of concrete, including pumped concrete pipe piles and square piles, without affecting the final product's surface quality. The product is also suitable for use with common mould materials, ensuring a smooth release and preventing adhesion issues. Always conduct a compatibility test with specific materials and conditions to ensure optimal performance.

To ensure effective application of **CasTech REL-2000**, it is essential to evenly distribute the release agent on the mold surface. Avoid applying the agent too thickly, as an overly thick layer can increase the occurrence of honeycomb bubbles on the component's surface. When using atomizing tools for spraying, adjust the atomizing nozzle to achieve the best effect. In winter, if bubbles appear on the component's surface, consider brushing the water-based release agent 12 hours before pouring the concrete to allow sufficient time for the agent to air-dry and form a film. Only use tap water for blending the release agent—recycled or circulating water is strictly prohibited. Clean the surface of the mold table before application. Apply the release agent using a brush or spray gun to ensure even coverage. Wipe the mold surface with a cloth moistened by the release agent or use a spray gun to coat the template, ensuring the release agent adheres uniformly

Packaging

CasTech REL-2000 is available in 210-liter drums and in 1000 L IBC tanks upon request.

Precaution

CasTech REL-2000 is water-based liquid and is not a fire or health hazard. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Spillages should be washed down immediately with cold water. For further information refer to the Material Safety Data Sheet.

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Storage and Shelf Life

Store under cover, out of direct sunlight and protect from extremes of temperature. Storage life up to 12 months when stored in unopened containers as above.

Health and Safety

PPE's: Suitable protective goggles and gloves & mask must be worn.

Precautions: Contact with eyes, rinse immediately with plenty of water and when contact with skin, wash off immediately with soap & water.

If swallowed seek medical attention immediately.

Hazard: Regarded as non-hazardous for transportation.

Disposal: Do not reuse containers. To be disposed off as per local rules and regulations.

Additional Information: Refer to MSDS (available on request.).

Technical Support

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

CasTech MIDDLE EAST FZE

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