



Optimising Precast Concrete Production with the Right Release Agent

Precast concrete, a versatile construction material, finds applications in diverse structures, spanning bridges, buildings, retaining walls, and parking garages. An integral component of efficient precast concrete production is the judicious selection of release agents. These agents prevent concrete adhesion to molds, facilitating the smooth removal of the finished product. The choice of the appropriate release agent is pivotal in ensuring a cost-effective, efficient, and high-quality production process;

Several factors merit consideration when opting for the right release agent in precast concrete production:

1. Type of Moulds: The nature of the molds used significantly influences the choice of release agent. In general, Steel molds may necessitate petroleum-based agents (seriously eco-unfriendly and creates problems with surface adhesion later), counterproductive where the products created need coatings later (needs water-based agent), while rubber wood or plastic molds are better suited for water-based alternatives.

2. Concrete Mix Design: The chemical composition of the concrete mix is another influential factor. Variables such as pH levels, additives, and curing times can impact release agent performance. Collaboration with concrete suppliers is essential to ensure compatibility with the specific mix design.

3. Environmental Factors: The climate and environmental conditions at the production facility also play a role. Humid or wet environments may render water-based release agents less suitable, potentially leading to surface defects on the finished product. A higher hydrocarbon level is preferable.

4. Application Method: The chosen application method affects effectiveness. Spray-on release agents are common, but certain molds or products may require a brush-on or wipe-on application. Uniform and consistent application is crucial to avoid inconsistencies in the final product.

5. Safety and Sustainability: Safety and sustainability considerations are paramount. Selecting a release agent safe for workers and environmentally friendly is essential. Water-based release agents are preferred for their eco-friendliness mineral hydrocarbon-based agents will be able to service most of the types of molds, compared to petroleum-based alternatives.

In conclusion, choosing the right release agent for precast concrete production is a multifaceted process. Factors encompass mold types, concrete mix compositions, environmental conditions, application methods, safety and sustainability aspects, and meeting performance and safety standards while promoting efficient, eco-conscious practices.

ConcreteAway stands strong in the realm of concrete mold release agents. Comprising a wax emulsion blended with mineral hydrocarbons and diluted in water, it offers a nonaggressive, non-hazardous, and biodegradable alternative that elevates concrete processing while safeguarding both products and the environment.

Unlike traditional petroleum-based release agents that can wreak havoc on the integrity of concrete surfaces, ConcreteAway is designed for efficiency and long-term performance. **It can be diluted up to a 1:3 ratio**, ConcreteAway to water, ensuring optimal usage and cost-effectiveness. Please test the needed ratio before the final use, spray-on or brush.

One of ConcreteAway's standout features is its compatibility with subsequent concrete surface coatings. It steers clear of the complications that often arise with petroleum-based agents, which can lead to high failure rates and chemical reactions that undermine concrete's long-term potential. By choosing ConcreteAway, you not only protect your concrete products but also pave the way for seamless coating applications.

However, it's prudent to conduct a thorough test before implementation to ensure it aligns perfectly with your specific needs. With ConcreteAway, you're not just getting a mold release agent; you're investing in a sustainable, concrete-friendly solution that lays the foundation for lasting success. Choose ConcreteAway and experience the difference in concrete processing excellence.

ConcreteAway is available in 20ltr cubes and IBC for commercial use only.

For more info consult the MSDS and for products please visit www.wetex.com.au

Safety Directions

Keep out of reach of children. Avoid contact with eyes use PPT/Goggles/gloves. In case of contact with eyes, rinse immediately with plenty of water. If swallowed, drink plenty of water and seek medical attention immediately; further refer to the MSDS. Discontinue if skin irritations develop seek medical advise. Flux Design Australia Pty Ltd warrants that the products manufactured or supplied by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to Flux Design Australia Pty Ltd shall be limited to replacement of the material proven to be defective. Flux Design Australia Pty Ltd MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.