






## Granudan release agent systems



In collaboration with Zyxax and leading Wind Blade Manufacturers we have developed our own brand within release agent systems, BreeZ. Granudan has the exclusive right to deliver these specially developed products. We have expanded our BreeZ-program and combined the best Zyxax developments with the best from ChemTrend








### Cleaning agents

<p><b>BreeZ Waterclean</b></p>		<p>BreeZ Waterclean effectively removes everything! – both sealer, release agents etc. The product is ideal for preparing surfaces for paint or other processes that requires a totally clean surface.</p> <p>Water-based</p> <p>4 liter</p>
<p><b>Granudan Cleaner GR-08</b></p>		<p>This water-based cleaner is an effective degreaser and removes surface contamination such as oil, wax, soap, and dust from sanding. It will not remove sealer or release agents.</p> <p>Water-based</p> <p>5 liter</p>
<p><b>BreeZ Surface Cleaner</b></p>		<p>BreeZ Surface Cleaner effectively removes waxy release agents, polishing pastes, styrene build-up, and impurities. The product does not remove sealer.</p> <p>Solvent based</p> <p>4,75 liter</p>
<p><b>Chemlease Mold Cleaner EZ</b></p>		<p>Chemlease Mold Cleaner EZ is a blend of solvents designed for removal of wax and contaminants from composite molds.</p> <p>Solvent based</p> <p>3,8 kg</p>
<p><b>Granudan Mold Cleaner</b></p>		<p>Extremely efficient solventbased cleaner for removal of waxes, Oils and other contaminations. High content of hazardous materials. Contains Toluene! Only sold in EU.</p> <p>Solvent based</p> <p>1 or 5 liter</p>










### Primer agents






<p><b>BreeZ MPP 2698W</b></p>		<p>BreeZ MPP 2698W leaves a tough and durable sealed film and overcomes micro-porosity. An appropriate sealer or release agent should be applied on top of the product after it has cured.</p> <p>Water-based</p> <p>3,76 kg</p>
<p><b>Primer MPP 712 EZ</b></p>		<p>Ideal for mold-build or refurbishment of old, worn mold surfaces. Has high viscosity and can bond to almost every surface. Surface must be clean before application, and sealer needs to be used after.</p> <p>Solvent based</p> <p>0,93 kg</p>
<p><b>Matte Primer MPP 2740W</b></p>		<p>Chemlease MPP 2740W – this product gives a good matte finish. However it is a primer so it has no release properties. Therefore we would want a sealer over this product next to the preferred waterbased release agent. The product must be applied by spray.</p> <p>Waterbased.</p>

Sealer agents






<p><b>BreeZ Sealer 2767W</b></p>		<p>Newly developed. Our best performing waterbased sealer product. The product delivers a very durable film with superior abrasion resistance. It's a combination between a primer and sealer, so clients often can skip an extra step. This water-based sealer is designed to treat both the chemical and physical bonding sites found on every mold surface. We recommend post-curing for this product.</p> <p>Water-based</p> <p>5 liter</p>
<p><b>BreeZ Sealer BN201</b></p>		<p>Durable water-based alternative to the solvent based Sealer GP. Besides sealing properties, this sealer also has more release power. Only a few coats are often sufficient. Used within the Wind Industry since 2012. Developed for use with Zyxax water-based release agents. The product is very durable and will bond on both epoxy, metal, and polyester surfaces. We recommend post-curing for this product.</p> <p>Water-based</p> <p>4 liter</p>
<p><b>BreeZ Sealer GP</b></p>		<p>Sealer GP overcomes micro-porosity and restores a uniform surface that extends the life of the release coating. For a water-based alternative we recommend BreeZ Sealer BN201.</p> <p>Solvent based</p> <p>1 &amp; 3,75 liter</p>
<p><b>Chemlease Sealer 15EZ</b></p>		<p>Chemlease Sealer 15EZ is a high-performance sealer that reduces mold porosity. The product acts as a base for new or reconditioned molds.</p> <p>Solvent based</p> <p>0,71 or 3,5 kg</p>
<p><b>Chemlease Matte Sealer 122L</b></p>		<p>Matte Sealer 122L has no release properties but the product changes the contour of the surface to matte appearance. Apply one layer of Sealer GP or Sealer EZ after curing.</p> <p>Solvent based</p> <p>0,8 kg</p>

## Release agents




<p><b>BreeZ Release 2212W</b></p>		<p>Water-based, semi-permanent release agent specifically formulated to meet the high performance requirements of the Wind Industry by providing consistent, effortless and multiple releases.</p> <p>Water-based - high/medium release power</p> <p>5 liter</p>
<p><b>BreeZ Watershield</b></p>		<p>High release power and perfect for productions with epoxy and no gel coats. Watershield is to be used on molds where the molded parts are more difficult to demold.</p> <p>Water-based – very high release power</p> <p>4 or 19 liter</p>
<p><b>BreeZ Enviroshield</b></p>		<p>Medio high release power and suitable for productions with epoxy and use of gel coats. Enviroshield is designed to bigger molds where the molded parts are easy to release.</p> <p>Water-based – medium release power</p> <p>4 or 19 liter</p>
<p><b>Granudan Aqua Slipcoat 506</b></p>		<p>The product is a combination of polymer and synthetic wax. It has a high durability and performs well even on abrasive moldings with high stress levels. Very suitable for webs, flanges and upstands within the Wind Industry, or when using rough materials against mold surface or on complicated molds. A universal release for both polyesters, vinylesters and epoxies. Very price attractive.</p> <p>Water-based – High/Medium power</p> <p>5 liter</p>
<p><b>Chemlease 2196W</b></p>		<p>Chemlease 2196W is a semi-permanent release agent used for FRP composite molding. Ideal for polyester productions. If no sealer is used apply six coats in total.</p> <p>Water-based – medium/low release power</p> <p>5 kg</p>
<p><b>Chemlease 2704W</b></p>		<p>Minimal transfer of release agents, high-temperature stability, high abrasion resistance, and multiple releases. Medium/low slip and is to be used in polyester and vinylester productions.</p> <p>Solvent based - Medium/low slip</p> <p>3,75 kg</p>
<p><b>BreeZ Multi Shield</b></p>		<p><b>Slipcoat no. 1.</b> BreeZ Multi Shield has a very high slip, and a high number of releases. The product is comparable to Watershield. No buildup. Suitable for polyurethane.</p> <p>Solvent based – Very high Release Power</p> <p>3,75 liter</p>
<p><b>Fiberglass Shield</b></p>		<p><b>Slipcoat no. 2.</b> Fiberglass Shield creates high gloss and has a high release power. Often used on small molds, artificial marble, and molds with low release effect and a wish for high gloss.</p> <p>Solvent based – Class A finish – High release power</p> <p>3,75 liter</p>
<p><b>BreeZ Composite Shield</b></p>		<p><b>Slipcoat no. 3.</b> Provides moderate release effect. Used for larger boat molds and for molds where you do not want too good release. The product prevents pre-release and has a high number of releases.</p> <p>Solvent based – low release power (prevents pre-release on female molds)</p> <p>3,75 liter</p>

<b>Chemlease 41-90 EZ</b>		<p>Rapid curing semi-permanent release agent that provides multiple releases with minimal transfer to the molded part. Primarily for closed molding of abrasive or low draft parts. For all mold types.</p> <p>Solvent based</p> <p>3,4 kg</p>
<b>Chemlease 75EZ</b>		<p>Creates high gloss and medium-high slip for polyester productions. A semi-permanent mold release system developed specifically for the Composites Industry. Use when high-quality finish is required.</p> <p>Solvent based</p> <p>3,4 kg</p>
<b>Chemlease 2185</b>		<p>Creates high gloss and medio/low slip. Contains 1-2% of wax. Can be used on all mold types. Use for small parts and low temperatures. Chemlease 2185 does not require an extended cure.</p> <p>Solvent based</p> <p>3,4 kg</p>
<b>Chemlease 2720</b>		<p>Semi-permanent release agent for epoxy and polyester productions. The product creates a high slip and high gloss. Chemlease 2720 is fast curing and has multiple releases.</p> <p>Solvent based</p> <p>3,23 kg</p>
<b>Flex-X 1.0 – 6.0</b>		<p>Release agent system for gel coating in six different levels of effectivity. We recommend Sealer GP when you start using Flex-Z. Only apply – do not wipe off. These products are fast curing.</p> <p>Solvent based</p> <p>3,75 liter</p>



### Release agents - Internal

<b>Granudan INT 115</b>		<p>INT. 115 is a general-purpose internal release system for epoxy resins for pultrusion process. The product is a liquid internal release system to incorporate directly into the resin to aid in the release process.</p>
<b>Chemlease IC25</b>		<p>Chemlease IC25 is a general-purpose internal release system for most polyester and composite resins. The product is a liquid internal release system to incorporate directly into the resin to aid in the release process. Epoxy/polycarbonat. Be careful with gelcoat – must be RTM (closed mold)</p>
<b>Chemlease 5629</b>		<p>Polyester Pultrusion. New high-performing chemistry. Good references from US.</p>
<b>Chemlease IC60</b>		<p>Chemlease IC60 is primarily used for non-gel-coated polyester resins. When added to polyester resin, it eliminates the need for an external release agent. This product imparts better flow properties to the polyester resin. Pultrution. Be careful with gelcoat – must be RTM (closed mold)</p>
<b>Chemlease IM03</b>		<p>Polyester. Be careful with gelcoat – must be RTM (closed mold)</p>

Release waxes

<p><b>Chemlease 5127 – Soft wax</b></p>		<p>Sacrificial release wax for rigid and flexible polyurethane foams and polyester resins. Works for mold flanges, sealing wood plugs, and other non-densified plug/master surfaces.</p>
<p><b>Chemlease 5128 – Hard wax</b></p>		<p>Sacrificial release wax good for pre-release challenges</p>
<p><b>BreeZ Flange wax</b></p>		<p>BreeZ FLANGE WAX is a well-balanced combination of wax and high-quality lubricants that is especially suitable for application in the flange area of polyester applications with vacuum processes.</p> <p>Solvent based</p> <p>0,75 kg</p>

Release agents sprayable

<p><b>Lusin Alro LL 261</b></p>		<p>Lusin Alro LL 261 is a silicone-free release agent based on PTFE. Suitable for mold temperatures up to 260°C (500 °F). The white air-drying film adheres to metal, plastic, and glass surfaces and shows excellent release and sliding effects. The high efficiency ensures several release cycles without further application.</p> <p>400 ml</p>
<p><b>Mono-Coat 6025WA</b></p>		<p>Universal release agent for PU and Composites – for molds in complexed designs with unreachable corners and areas.</p> <p>500 ml</p>