

FOR IMMEDIATE RELEASE

Environmentally Friendly, External Mold Release Replaces Solvent-Based Waxes and Silicones in Tough SMC/BMC Applications

Axel Plastics Research Laboratories now offers EM-1212SF2, an environmentally friendly, water-based external mold release to replace solvent based releases in tough, SMC/BMC and other highly filled resin molding applications. The non flammable product is an emulsion which contains fluoropolymers, phosphate esters and fatty acids and is enriched with a small percentage of alcohol to speed drying.

"EM-1212SF2 offers the release performance and minimal transfer requirements that molders of highly filled composites demand", says Mr. Glenn Pfister, AXEL's Senior Technical Support Engineer. "It is effective at releasing polyester, epoxy, melamine and phenolic and our customers report that it is safer and more cost-effective than using solvent based products."

The benefits of EM-1212SF2 flow directly from the product's composition. The fluoropolymers provide excellent heat resistance with minimal transfer of the mold release to the final product. Multiple releases from a single application can contribute to reduced manufacturing costs and enhanced mold maintenance. The small fraction of alcohol provides a quick-drying formula which is also non-flammable. And the overall composition is much more environmentally friendly than solvent-based external mold releases, making it easier and more pleasant for employees to work with.

Spraying is the preferred method of applying EM-1212SF2 because it results in a more consistent release film. But it may also be applied by wiping the product on the hot or cold molds. The release may be used full strength or diluted as required. MoldWiz™ EM-1212SF2 is available in 55 gallon drums, 5 gallon pails and 1 gallon containers.

Success Stories

Successful introduction/substitution of MoldWiz EM-1212SF2 has already benefited many plastic products manufacturers. Here are a few examples:

- 1 A manufacturer of multi-purpose trays from polyester SMC substituted EM-1212SF2 for solvent-based wax. The result: better environmental conditions for workers, including a pleasant odor, due to reduced emission of volatile organic compounds (VOCs). Final products were cleaner, and there was no contamination from the mold release.
- 2 A manufacturer of automotive accessory panels using compression molded SMC and BMC materials replaced a highly acidic solvent-based wax (which was applied for each new product molded) with MoldWiz EM-1212SF2. The result: reduced pitting on the molds, and cost-saving multiple releases.
- 3 A molder casting highly filled epoxy resins from aluminum molds substituted EM-1212SF2 for the silicone/solvent dispersion previously used as a mold release. The result: The parts now have a more consistent gloss and are not contaminated by the silicone (which is costly to remove). The working environment is more pleasant, and the company has reduced its storage of flammable solvents.

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