

Technical Data Sheet



818 +

50 Cambridge Drive, Monroe, CT 06468

Phone: 718-672-8300 $_{\square}$ Fax: 718-565-7447 E-mail: info @axelplastics.com

www.axelplastics.com

Product Description

External mold release: An air-drying reactive resin solution that cures to provide a durable semi-permanent coating. Permits multiple releases without transfer at both ambient and elevated temperatures. A wipe on/leave on applied product.

Composition

Proprietary resin solution comprising modified siloxane based polymers which crosslink and form a release film upon evaporation of the solvent carrier.

Handling

MOISTURE SENSITIVE. KEEP TIGHTLY SEALED. Minimize exposure to atmosphere. Do not return exposed material to can. Store above freezing and below 100°F / 38°C. DO NOT DILUTE

Features

Easy, wipe on and leave on. No polishing High Gloss No HAPS

Uses

Ideal for open molding, high yield applications such as tub/shower and boat hulls that require class "A" finishes. Molding polyester, vinyl ester and epoxy resin.

If XTEND 818+ is used on New or Green

Molds: Apply 2-3 coats of XTEND XTR Mold sealer or XTEND AMS Mold Sealer prior to application of XTEND 818+ Mold Release.

Typical Properties

| Effective Ingredients | <2% |
|-----------------------|--------------------------------|
| Color | Clear |
| Specific Gravity | 0.720 @25°C |
| Flash Point | <73°F / <23°C (C.O.C.) |
| Shelf Life | 12 months in unopened/original |
| | container |
| Solvents | Aliphatic Hydrocarbons Blend |

Mold Preparation

New & Green FRP Molds:

Read AXEL publication FocusOn New & Green Molds. Mold surfaces should be clean and free of previously used mold releases and other surface contaminants.

Application Instructions

Apply with a clean, woven, lint free paper towel, such as the Scott Shop Towels On A Roll , Kimberly-Clark WorkHorse rags or WypAll wipes, or a heavy-duty plain white paper towel.

Wet the paper towel with release until it is wet but not dripping. Gently queeze the towel in to a ball to soak the 818+ throughout the towel. Wipe 818+ on to the mold surface using smooth even strokes. Apply a thin, uniform coating and allow the release to evaporate. Do not overwork the area or continue to wipe. Simply wipe on, and allow to dry.

- 1) When working on a large surface area, apply to one section at a time, working from one end of the tool surface to the other. 818+ can be applied in a straight line or in a circular motion. Care should be taken to have a small amount of overlap to ensure 100% coverage.
- 3-4 coats of 818+ are recommended for a clean, well-conditioned mold. New molds and repaired molds should be handled with special care (see Focus On: New & Green Molds. At least 2 coats of XTR or AMS Mold Sealer are recommended.
- 3) Allow a minimum 15 minutes for each coat of release to dry and cure before applying the next coat. Low ambient temperatures (below 70°F / 20°C) may necessitate longer cure times. At least a small amount of air movement is recommended to encourage solvent evaporation and cure.
- 4) Always use a fresh, clean cloth for each coat of release. If streaking occurs, replace your cloth with a clean one. Also make sure that the cloth is not too saturated, as heavy applications of release can streak (see FAQ's Semi Permanent Mold Releases & FRP Molds). Most streaks can be removed by waiting for the release to cure and then lightly buffing the surface with a clean, dry cloth.
- 5) 30 minutes cure time after the final coat is generally adequate. Once again, the longer you wait, the better. 60 minutes or more is recommended for below 70°F / 20°C or for difficult mold shapes/profiles.
- 6) To maximize productivity, a break-in procedure can be beneficial. A good method is to apply a light rewipe of release to the mold surface following the first pull, another after the third, and another after the fifth part. It is

also a good idea to do more frequent touch ups on sheer edges, radius areas, and high wear sections. This will improve release performance and provide the best protection for your tool.

* Due to the unique properties of this material, we require a clean closed application container. The container we find best suited, is an HDPE bottle with a flip top cap, where only a small amount of air is transferred. Gallons should be transferred into the type of container described above. At your request we can supply a sample and source. Drum quantity customers are required to use a desiccant drier attachment to assure proper release performance.

Maintenance

If sticking begins: Wipe the problem area of the mold with XTEND 818+ to dissolve and remove residue. Continue molding. If the residue does not dissolve, the mold can be lightly cleaned with acetone. 818+ should be reapplied after any solvent cleaning.

If build up persists: Wipe off with AXEL's CX-500 Mold Cleaner. (This cleaner is designed to take off the residual buildup without removing all of the sealer and the 818+.) Then wipe on 2 or more coats of XTEND 818+, waiting 10 minutes between each coat and 30 minutes after the last coat.

In extreme resin build-up conditions (usually associated with closed molding applications): Strip the tool with CX-525 or CW-10NC. These products can remove all resin build-up, and the 818+.

Removal of 818+ can also be done with CX-200HS Mold Stripper, followed by a water wipe (and dry) and a good cleaning with AXEL CX-500 Mold Cleaner.

XTEND, MoldWiz & PasteWiz are registered trademarks of Axel Plastics Research Laboratories.

This information is supplied for technically skilled professionals working at their own risk. AXEL believes the information to be accurate, although the Company assumes no liability in the validity of this information for any specific process or application. Moreover, AXEL will assume no liability from any direct and/or consequential damages of any kind that may arise from the use or non use of AXEL products or information supplied by the Company or its appointed representatives.

20/Oct/2016