

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.

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. Only a light wipe off is necessary if high gloss is not required. A quick application is easy to achieve.

No HAPs

Uses

XTEND 1110 is a semi-permanent mold release designed specifically for epoxies.

For initial application, 2 coats of XTEND XTR mold sealer is recommended prior to application of XTEND 1110. For further performance and durability, AXEL XTEND PR-20 Mold Primer is recommended prior to XTR or 1110

Typical Properties

Effective Ingredients	<2%
Color	Colorless, Clear
Specific Gravity	0.72 @25°C
Flash Point	<73°F / <23°C (C.O.C.)
Shelf Life	12 months in unopened/original container
Solvents	Aliphatic Hydrocarbons Blend

New Molds

Read AXEL publication Focus-On New & Green Molds.

Conditioned & Metal Molds

Mold surfaces should be clean and free of previously used mold releases, buffing and polishing compounds, and other surface contaminants.

AXEL strongly recommends the use of a Mold Stripper/Remover when buffing compounds or polishing compounds are used that contain animal fats, silicones, (pine) oils, etc. AXEL's water-based WCX or solvent based CW10-NC can be used. After thoroughly removing the buffing compounds, a hot water wash (then dry), and then cleaning with AXEL CX-500 Mold Cleaner should be completed prior to applying AXEL XTR Mold Sealer and AXEL XTEND 1110.

Application Instructions for XTEND 1110:

Wipe On & Wipe Off.

Apply with two clean, woven, lint free paper towels, folded together into quarters, such as the Scott Shop Towels On A Roll®, Kimberly-Clark WorkHorse® rags or WypAll® wipes. When using a cloth material, 100%, bleached white cotton should be used (no man made fabrics). Wet the paper towel with 1110 until it is nearly 100% wet but not dripping. Squeeze the towel in to a ball to soak the 1110 throughout the towel. Wipe onto mold surface using smooth even strokes. Apply a wet looking, uniform coating. Note that the 1110 should not run or puddle. Once the 1110 starts to evaporate, take a second, clean, dry, 100% bleached cotton cloth, and lightly wipe over the entire wet area. Then, flip or turn the cloth over to a dry side and wipe the area again to a shine. Do not heavily buff or aggressively wipe off the 1110 – it should be wiped to a shine with a light wipe or two of the dry cloth.

- 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.
- 2) 3-6 coats of release are recommended for a clean well-conditioned tool. New tools and repaired area should be handled with special care (see Focus On: New & Green Molds. At least 2 coats of XTR sealer are recommended for new and repaired molds.)

3) Allow a minimum of 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.

It is not recommended to wipe on and leave on the XTEND 1110 as it will leave tiny drops (pin head sized dots) on the surface of the mold. XTEND 1110 should always be wipe on and at least lightly wiped off, as described above, to ensure an even coating of the 1110 is present on the mold.

FINAL CURE:

60 minutes cure time after the final coat is applied is generally adequate. Once again, the longer you wait, the better. Temperatures below 70°F/20°C should cure for 60 to 120 minutes. Cure time for new molds or repaired areas should be 60 minutes minimum and preferably longer. Additional cure time is also recommended for difficult mold geometries.

To maximize productivity, a break-in procedure can be beneficial. A good method is to apply a light coat 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. AXEL always recommends one touch-up (re-application) after the first part is molded.

* 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 shampoo squeeze style 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.

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