

**Technical Data Sheet** 



**21GP** 

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### **Product Description**

External mold release. A reactive resin solution that cures to a cross-linked semi-permanent coating, which provides multiple release without transfer.

# Composition

Proprietary resin 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.

## **Features**

Long-lasting coating
High Temperature Performance
When cured, the coating can be used in applications
requiring FDA compliance with provision 21CFR 175.300.

#### Uses

Designed for Rubber, Thermoplastic, and Thermoset resins processed at temperatures from 480 to 700°F+ including RotoMolding applications.

**Typical Properties** 

| Solids           | 4-6 %                          |
|------------------|--------------------------------|
| Specific Gravity | 0.81 @ 25°C                    |
| Flash Point      | <73°F / <23°C                  |
| Shelf Life       | 12 months in unopened/original |
|                  | container                      |
| Odor             | Mild                           |

# **Mold Preparation**

Molds must be thoroughly clean. Use recommended solvents to remove previously used releases. CX-200HS can be used to remove semi-permanent coatings. For other types of residue, use Clean Wiz –9NC.

# **Application Instructions**

- 1) Apply from closed container\* 1 coat of XTEND 21GP by wiping, brushing or spraying. Apply a smooth, continuous wet film avoid excessive rubbing of deposited film or streaking will occur. Designed to be best done on an ambient to warm mold under 100°C / 200° F.
- 2) The number of coats required for a particular application will depend on the porosity of the mold, but a minimum of three coats of the XTEND 21GP is recommended. At least 15 minutes should be allowed between coats for drying.

- 3) After the final coat of release is dry, cure the release coated mold for 1 hour at least 400°F/200°C. It will cure faster at higher temp. (for example, at 450°F/232°C, it will comparably cure in about 20 minutes), However, longer times at higher temperatures will result in longer-lasting performance. Curing at or above the operating mold temperature will result in the best performace
- \* Due to the unique properties of this material, we require a clean closed application container. The container we find best suited, is a 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.

#### **Maintenance**

If scumming or sticking begins: Wipe the problem area mold with XTEND 21GP to dissolve and remove residue. Continue molding. If the residue does not dissolve, lightly work over the tool with a Scotchbright® pad wet with XTEND 21GP then apply one coat of release.

If scumming persists: Wipe off with AXEL's CX-525 cleaner and a Scotchbright® pad. (This cleaner is designed to take off the residual styrene buildup without removing the base coat of release.) Then wipe on 1 to 2 coats of XTEND 21GP while heating the mold, waiting 10 minutes between each coat.

In extreme scumming conditions: Strip the tool with CX-525, CX-200HS and by buffing the tool. This will remove all scumming, buildup and the release. It will also condition the mold for break-in. Start from step 1 to recondition the mold.

Removal: Use CX-200HS, followed by a water wipe and a good general purpose cleaner, such as AXEL's CX-500.

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