



Technical Data Sheet

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XTEND® W-4020

Product Description: A water-based semi-permanent mold release made of proprietary resin emulsion comprising modified polymers which crosslink and form a semi-permanent release film upon evaporation of the water carrier.

Use: Specifically designed for Rotational Molding of polyethylene and polypropylene up to 1000°F/537°C.

Composition: Aqueous emulsion of proprietary resins and cross-linkers with various surfactants.

Handling: Keep this water-based product from freezing and store below 100°F / 39°C.

Mix/agitate well before using.

is recommended to remove previous release agents prior to application and curing of W-4020.

AXEL CX-200XM Mold Stripper can be used to remove previous release agents. If media blasting or abrading the surface mechanically, the mold should be thoroughly cleaned with Mineral Spirits, and then AXEL CX-500 Mold Cleaner or acetone prior to applying the AXEL XTEND W-4020 Mold Release.

Note: The most common problem when poor release results after mold cleaning, is blast media left in the tool due to improper cleaning.

Application: Dry-cycle/Dry bake for new or stripped/clean tools:

Use a cotton cloth or industrial paper shop towel. Soak the cloth with release until saturated and wipe onto the mold surface using smooth even strokes until the film is uniformly dry without wiping marks. It is NOT recommended to wipe on to a very warm or hot mold. The mold release may also be sprayed on to an ambient mold. If spraying, any drips, runs, or over-spray should be wiped to ensure an even coating. Do not spray or mist on to hot molds unless quality spray equipment with proper atomization is used.

Full Cure: Multiple coats (2-3) are recommended to achieve proper results/performance. The first coat should be applied and allowed to dry to the touch. Then apply the second coat and, for maximum longevity, dry-cycle the mold through the oven and cooling cycle. Once the mold has cooled to below 175°F/80°C a third coat of the XTEND W-4020 can be hand applied for very difficult to release parts. Allow to dry to the touch, and then load the powder and mold. If spraying on the W-4020, the mold should be allowed to cool to under 190°F/88°C when possible. A full, dry-cycle is not necessary to get excellent release and longevity.

FEATURES:

Easy Spray or wipe on	No HAPS
No odor	

TYPICAL PROPERTIES:

EFFECTIVE INGREDIENTS	4.5-6.5%
COLOR	Off-White
SPECIFIC GRAVITY	0.97-1.01 @ 25°C / 77°F
FLASH POINT	Non-flammable, >100°C / 212°F
SHELF LIFE	One year from date of manufacture

Mold Preparation: XTEND W-4020 can be applied over the top of most other rotational molding release agents. This is recommended when the mold surface is in good condition and cleaning, or stripping is not necessary for the quality of the molded part. However, for longest lasting results, it

Partial Dry Cycle for Moderate Parts: For molders with (semi) independent arms, the arm can be moved in for a few minutes to heat through for a minimal cure (after two coats have been applied), and then brought back out to load the powder, close, and place back in the oven.

No Cure: XTEND W-4020 has also been proven to work on new molds and newly media blasted molds without any dry cycle. Once properly cleaned, simply apply two coats by hand and allow to dry to the touch between coats and after the second coat. The powder can then be loaded and molded. Although long term performance may be reduced, the XTEND W-4020 will provide excellent release even when no heat cure is completed.

Seasoned Tools with Previous Release Agents: For molds that are not stripped of previous mold release, one to two light coats can be applied to the mold and allowed to dry. It is not necessary to dry-cycle the mold if the mold/tool is seasoned with mold release. XTEND W-4020 will work right over the top of most other release agents. Just a light coat, when necessary, is all that is needed.

Touch-up coats can be applied as needed depending on part geometry, size, tooling, etc. No cure time is required for touch-up coats, however, the XTEND W-4020 should be dry to the touch before loading the mold with powder.

NOTE: The XTEND W-4020 performs best when wiped on ambient or warm molds or sprayed (and then wiped into the surface) on ambient molds. Application on hot molds should be avoided, especially when spraying. The exception to this is when spraying with high quality spray equipment, such as: HVLP or similar equipment.

Review SDS before use.