



Improving
Demolding Quality
and Efficiency with
RapidRelease™





DEMOLDING APPLICATIONS

Automotive Tires

Molded Elastomers

Consumer Products

Micro-molded Parts

BENEFITS

High Conformality: Coat complex surface features

Superb Nonstick Surface: Shown to dramatically reduce demolding force and time

Excellent Adhesion: Allows parts to release cleanly with no mold release transfer

Room-temperature Process: Coat delicate structures and temperature-sensitive materials

No Drying or Curing: Molds are ready for immediate use

Vapor Deposition: Eliminates pooling, buildup or thinning of coating in critical areas

Solvent Free: Environmentally friendly process

Ever wanted to incorporate new design features but worry about manufacturability? Or encountered a difficult to de-mold product line? Deep ribs, undercuts, zero-draft cores, textured surfaces, dense features or aggressive polymer resins causing quality defects?

RapidRelease Permanent Mold Release Coating Offers Superb Release

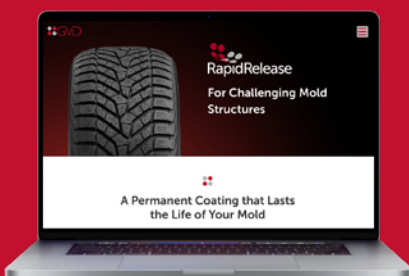
GVD has developed a simple, one-step coating process for advanced mold release applications. Our conformal RapidRelease fluoropolymer coating (akin to Teflon®) streamlines manufacturing and extends the life of coated mold cavities.

Joining forces with our customers, GVD creates solutions to complex release problems for many mold manufacturing industries. Our room temperature vapor deposition process produces lubricious thin films that help release a variety of products.

RapidRelease Performance Specifications

Tire Mold Specification	Performance
Cure Cycles Per Coating	4,500+
Demolding Time Reduction	>80%
Demolding Force Reduction	45-60%
Increased Production	~10%
Deposition Temperature	Room Temperature
Coating Thickness	10 nanometers - 10 microns
Coating Adhesion	4.9B (ASTM D3359)
Coefficient of Friction	0.03-0.05
Thermal Stability	500°F (260°C)

NEXT STEPS



Call **617-661-0060** to discuss your application with our product specialists. We look forward to working with you as your coating partner and are ready to customize our products to meet your specifications.

Visit **GVDcorp.com** to get in touch with a GVD engineer discuss how RapidRelease can help you improve the release performance of your molds.