High repulsion resistance solvent-free UV acrylic

Our new and patented innovative technologies represent a breakthrough in materials science, delivering exceptional adhesive performance with best-in-class low VOC levels, while reducing carbon-footprint.

Performance that sticks. Sustainability that matters.

Revolutionary innovation in repulsion resistant adhesive technology

Our newly patented repulsion resistance solvent-free UV acrylic delivers exceptional adhesion to challenging low surface energy and textured substrates while significantly reducing environmental impact. This 100% polymer formulation ensures reliable bonding without compromising performance or sustainability.

Key Innovation Highlights:
– Superior repulsion resistance engineered for challenging substrate applications
– 100% polymer formulation with no solvents used in manufacturing or coating process
– Low VOC levels compared to solvent-based acrylic adhesives
– Future-proof solution addressing evolving regulatory and sustainability requirements

Proven environmental and performance benefits

Superior performance characteristics
– Exceptional repulsion resistance for reliable bonding on challenging substrates
– Strong initial tack and superior adhesion to low surface energy and textured surfaces
– Excellent UV, temperature, and dimensional stress resistance

Environmental impact reduction
– Lower CO_2 footprint and reduced water usage vs. solvent-based acrylics
– Zero solvent emissions in manufacturing and coating

Superior performance characteristics
– Exceptional repulsion resistance for reliable bonding on challenging substrates
– Strong initial tack and superior adhesion to low surface energy and textured surfaces
– Excellent UV, temperature, and dimensional stress resistance

Technical specifications and construction FT 77400

Product Portfolio Overview

Category	Specification	FT 77400
Adhesive technology	Technology	Solvent-free UV acrylic (100% polymer)
	Curing method	UV cured
	VOC level	Ultra-low VOC
Construction	Construction type	Double coated
	Carrier	Non-woven
	Total thickness	215 µm (8.46 mils)
	Liner	Glassine (recycled content)
Adhesion performance	90° Peel on stainless steel (24h)	>15 N/25mm
	90° Peel on PE (24h)	Comparable to modified acrylics
Repulsion resistance	Galvanized steel – RT	No failure observed
	Galvanized steel – 50°C	Outperforms competition
	PP – RT	Superior to competition

Innovative construction features
100% polymer adhesive system:
– Engineered specifically for repulsion-resistant performance
– Optimized for low surface energy substrate adhesion
– No solvents used in manufacturing or coating process
– UV light curing eliminates emissions during application

Advanced carrier technology:
– Double coated nonwoven construction (FT 77400) for maximum conformability
– Engineered for dimensional stress accommodation
– Superior die-cutting characteristics for complex shapes

Primary applications and industry solutions

Industrial: textured and/or curved surface and foam bonding
Industrial applications often involve bonding to textured plastics, foams, and other low surface energy (LSE) substrates where repulsion and dimensional stress can lead to failure.

Our solution:
– Excellent adhesion to LSE and textured surfaces
– High repulsion resistance for foam bonding
– Strong conformability and stress tolerance
– Reliable long-term performance under environmental exposure

Contact information and support

For samples, detailed technical specifications, substrate compatibility assessment, or technical consultations regarding our LSE Solvent-free UV Acrylic High Repulsion Resistance technology, contact your local technical representative or visit our comprehensive online resource center.

Immediate support available:
– Technical data sheet requests and repulsion resistance specifications of FT 77400
– Sample ordering and substrate-specific evaluation support: Contact us form
– Application consultation and engineering support for specialty labeling and graphical applications: THT Phone Number
– Implementation planning and transition guidance: Technology transition guide

Performance That Sticks. Sustainability That Matters.

Our technical experts are here to show you how to work with your materials successfully during every phase of your application. You can count on us to approach any challenge with genuine curiosity and care.

Contact your Avery Dennison sales representative or visit tapes.averydennison.com

Asia Pacific

Kunshan, China,
No. 618 Nanhe Road
Kunshan Economic &
Technological Zone
China 215335
Phone: +86 400 6987 555
Fax: +86 512 57155059

Europe

Tieblokkenlaan 1
B-2300 Turnhout
Belgium
Phone: +32 (0)14 40 48 11
Fax: +32 (0)14 40 48 55

North America

250 Chester Street
Painesville, Ohio
44077 USA
Phone: +1 866-462-8379
Fax: +1 888-358-4469

#MakingPossible

AVERY DENNISON

MAKING POSSIBLE™