

MASKANT ADHESIVES

SPECIALTY RESINS FOR MASKANT ADHESIVES

Protective maskants are used on a wide variety of finished products from automobiles to microwave ovens to protect surfaces from damage during fabrication, inspection or shipment. A key element of any maskant is the adhesive that holds it to the component to be protected.

Adhesives for maskants must meet a wide range of requirements, the most important of which is providing a reliable bond while allowing easy removal. In addition, they must not leave a residue when removed. Other important properties are optical clarity and water resistance.

Lubrizon supplies Carbotac® waterborne acrylic emulsions for adhesives that meet the requirements of the maskant industry. These resins are compatible with both aziridine and isocyanate crosslinkers, so adhesion level can be controlled precisely to meet the needs of any application. In addition, adhesives based on Carbotac® resins provide a consistent level of adhesion over time, and they maintain adhesion over a wide temperature range.



CARBOTAC® ACRYLIC EMULSIONS FOR MASKANT APPLICATIONS

Property	Carbotac® 26171	Carbotac® 26146	Carbotac® 26222	Carbotac® 1814
Adhesion Stability	Good	Excellent	Excellent	Good
Crosslinkability	Excellent	Good	Good	Very Good
Crosslinkers ^a	Aziridine/Isocyanate	–	–	Aziridine/Isocyanate
Ghosting Resistance	Good	Excellent	Excellent	Good
Loop Track (N/25 mm)	4.7	5	8.5	5.4
180° Peel Adhesion (N/25 mm) (24-h dwell PSTC-1)	7.7 ^b	7.9 ^b	7.5 ^b	6.7 ^b
Shear Strength (PSTC-7) (h @ 500 g/1.6 cm ²)	Stopped @ 24 h	24	15	Stopped @ 24 h
Solids (%)	50	51	50	55
pH	2.5	7	8	4.5

^a Dilute emulsion and raise pH above 8 for best performance in crosslinking formulations

^b Adhesive failure

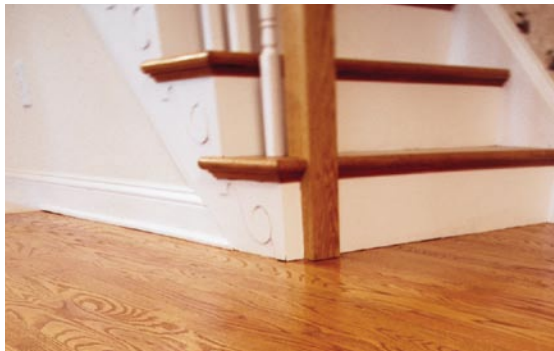
THE LUBRIZOL ADVANTAGE





INNOVATIVE POLYMERS FOR A WORLD OF APPLICATIONS

Lubrizol has over 40 years of experience in developing specialty waterborne polymers. We are an innovative and reliable global resource for the specialty chemicals industry. At Lubrizol, we work to provide you with creative, cost-effective solutions to your most demand application needs with a diverse line of acrylic emulsions, colloidal dispersions, polyurethane dispersions and vinylidene chloride emulsions.

From product recommendations to on-site formulating support to new polymer development, Lubrizol is dedicated to helping you solve your most challenging problems. With our customer-centered approach, we are dedicated to ensuring that your expectations are not just met, but exceeded. Our Development Team takes the time to understand application requirements and then works to deliver the right solution.

Lubrizol research scientists use statistical modeling and have access to virtually thousands of monomer combinations, providing them with the right tools for continuous innovation. These innovations in composition and polymer architecture ensure an endless stream of new polymers to meet your application needs – now and in the future.



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