Lubrizol

PERFORMANCE COATINGS

VYCAR™ EMULSIONS

Vycar™ vinyl chloride copolymer emulsions are purpose-built for applications that require flame retardancy and chemical, scuff and mar resistance. They are designed for coating a wide variety of substrates and for impregnation and saturation of fibrous materials like paper, nonwovens and textiles.

The inherent flame retardancy of Vycar emulsions makes them a good alternative for brominated flame retardants in many products. Vycar emulsions are heat sealable due to their thermoplastic properties, and can also be used to seal deformable materials by dielectric sealing.

Home furnishings such as blinds, draperies and upholstery can meet the most demanding flame retardancy standards when Vycar vinyl chloride emulsions are applied. Lubrizol has the formulation and application expertise to offer ready-to-use coatings tailored to specific application equipment and method, or we can help formulate coatings based on a Vycar emulsion.

Performance textiles for first responders benefit from the flame retardancy and abrasion resistance of coatings with Vycar emulsions, while water resistance can be greatly enhanced by seams that are sealed by tapes coated with Vycar.

Vycar emulsions can be used as the binder in a wide range of matt and scrim materials used in building and construction that require flexibility, exterior weatherability and flame retardancy.

The dielectric sealability and flame retardancy of Vycar vinyl chloride emulsions make them excellent for air filtration media.

For applications where barrier to moisture vapor is needed, Vycar® vinylidene chloride emulsions are recommended.

WHAT WE ADD MAKES THE DIFFERENCE.™

- FLAME RETARDANCY
- CHEMICAL, SCUFF AND MAR RESISTANCE
- HEAT SEALABLE
- READY-TO-USE COATING FORMULAS OR CUSTOMIZABLE FOR SPECIFIC APPLICATIONS
- BINDER FOR MATT AND SCRIM MATERIALS
- EXCEPTIONAL BARRIER PROPERTIES WITH VINYLIDENE CHLORIDE EMULSIONS

www.lubrizol.com/vycar

Vycar™ vinyl chloride and vinylidene chloride emulsion polymers are uniquely useful waterborne products. They exhibit excellent chemical resistance, adhesion to a variety of substrates, excellent toughness and wear resistance. Vinyledene chloride products are exceptional at barrier applications (very low MVTR) and corrosion protection.

VYCAR™ EMULSION PRODUCT PORTFOLIO

PRODUCT NAME	PRODUCT TYPE[1]	Tg °C	pH	VISC., cP	T.S., %	CHLORINE CONTENT %	VINYL WALL COVERING	RESILIENT FLOORING	TEXTILE	PAPER	HEAT SEALIBLE	CHEMICAL RESISTANCE	FLAME RETARDANT	MOISTURE BARRIER	APE-FREE[2]	FORMALDEHYDE FREE[2]	CHARGE
Vycar™ 151	PVC	85	10.5	25	50	56	■	■	■	■	■	■	■		Yes	Yes	
Vycar™ 152	PVC	85	10.5	25	50	56	■	■	■	■	■	■	■		Yes	Yes	anionic
Vycar™ 153	PVC	85	10.5	50	50	56	■	■	■	■	■	■	■		Yes	Yes	anionic
Vycar™ 351	PVC	62	10.5	20	57.5	45	■		■	■	■	■	■		Yes	Yes	anionic
Vycar™ 352	PVC	69	10.5	25	57.5	51	■		■	■	■	■	■		Yes	Yes	anionic
Vycar™ 460X45	PVC	26	6.0-7.5	46	49	25			■	■	■	□	□		Yes	No	anionic
Vycar™ 460X46	PVC	7	6.0-7.5	36	49	25			■	■	■	□	□		Yes	No	anionic
Vycar™ 460X49	PVC	40	5.0	20	50	40			■	■	■	■	■		No	No	anionic-nonionic
Vycar™ 460X58	PVC	40	6.0	37	49	50	□		■	■	■	□	■		No	No	anionic-nonionic
Vycar™ 460X63	PVC	22	6.0	20	49.5	43	□		■	■	□	□	■		Yes	No	anionic
Vycar™ 460x80	PVC	82	8.5	200	30	11				■	■	□	□		yes	No	anionic
Vycar™ 460X95	PVC	77	5.0	20	51	45	■	■	■	■	■	■	■		Yes	No	anionic
Vycar™ 460X104	PVC	77	9.0	15	55	45	■	■	■	■	■	□	■		Yes	Yes	anionic
Vycar™ 460X119	PVC	37	5.0	NA	48.5	36			■	■	□	□	□		Yes	No	anionic
Vycar™ 577	PVC	19	9.5	35	56.5	34			■	■	■	□	■		Yes	Yes	anionic
Vycar™ 578	PVC	11	10.0	NA	56.5	40			■	■	□	□	■		No	Yes	anionic-nonionic
Vycar™ 580X83	PVC	17	10.0	NA	55	38			■	■	□	□	■		No	Yes	anionic-nonionic
Vycar™ 590X20	PVC	-17	10.0	200	49	19			■	■	□	□	□		Yes	No	anionic
Vycar™ FT9	PVC	-13	9.0	700	50	14			■	■	□	□	□		Yes	No	anionic
Vycar™ TN 810	PVC	55	8.9	50	51.5	37			■	■	■	■	■		Yes	No	anionic
Vycar™ 650X27	PVDC	-4	4.5	30	54				■	■		■	■	■	Yes	Yes	anionic
Vycar™ 660X14	PVDC	7	5.7	100	48.5				■	■		■	■	■	Yes	No	anionic
Carboset® 2111	PVC	70	6.5	50	51	45	■	■	□	□	□	■	■		Yes	No	anionic

■ Recommended □ Secondary recommendation

[1]PVC = Polyvinyl Chloride; PVDC= Polyvinylidene Chloride

[2]Ingredients not intentionally added during manufacture

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