



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.

Features & Benefits

- 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

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.



Vycar™ vinyl chloride and vinylidene chloride emulsion polymers are uniquely useful water-borne products. They exhibit excellent chemical resistance, wear resistance and toughness as well as adhesion to a variety of substrates.

VYCAR™ EMULSIONS PRODUCT PORTFOLIO

| PRODUCT NAME | PRODUCT TYPE | T _g °C | pH | VISCOSITY, cP | TENSILE STRENGTH, % | CHLORINE CONTENT % | VINYL WALL COVERING | RESILIENT FLOORING | TEXTILE | PAPER | HEAT SEALABLE | CHEMICAL RESISTANCE | FLAME RETARDANT | MOISTURE BARRIER | APE-FREE ² | FORMALDEHYDE-FREE ² | CHARGE |
|----------------|--------------|-------------------|---------|---------------|---------------------|--------------------|---------------------|--------------------|---------|-------|---------------|---------------------|-----------------|------------------|-----------------------|--------------------------------|------------------|
| 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™ 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™ 460X122 | PVC | 40 | 5.0 | 20 | 50 | 40 | | | ■ | ■ | ■ | ■ | ■ | | Yes | No | anionic-nonionic |
| 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™ 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 |
| Carbaset® 2111 | PVC | 70 | 6.5 | 50 | 51 | 45 | ■ | ■ | □ | □ | □ | ■ | ■ | | Yes | No | anionic |

■ Recommended

□ Secondary recommendation

¹PVC = Polyvinyl Chloride;

²Ingredients not intentionally added during manufacture



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