Aliphatic monomers for fluorine-free superdurable 1K and 2K protective coatings

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VeoVa[™] vinyl esters and Cardura[™] glycidyl ester, derived from branched tertiary acids, offer a compelling solution for developing fluorine-free, highly durable protective coatings. Their unique molecular structure, characterized by a high concentration of methyl groups, imparts low surface energy and enhanced hydrophobicity to the resulting coatings. These properties translate into improved weathering resistance and corrosion protection. The use of these monomers aligns with sustainability goals by providing a fluorine-free alternative and contributing to extended coating lifespans, ultimately reducing the environmental impact of protective coatings.