

Additive solutions for thermoplastic applications in the construction industry

Building a new class of construction materials

From glass-reinforced support pads, to wood-composite decking, to upscale architectural touches, to films for roofing systems, plastics are changing the look of the construction industry from the ground up. Substituting polymer products for traditional, natural materials can improve durability, while enhancing thermal resistance, barrier properties, and mechanical performance.



In commercial, institutional, and residential construction, thermoplastic resins and composites are simplifying installation and recycling, while reducing both production and transportation costs.

ADD COMP North America is supporting progress in construction materials based on polyethylene, polypropylene, nylon, and other thermoplastics. The company's unmatched understanding of thermoplastic additive technology has produced a comprehensive portfolio of additive solutions. ADD COMP is committed to improving the processing and enhancing the performance of innovative resins and fiber-reinforced composite building materials.

PRIEX® coupling agents improve structural properties as much as 30%

PRIEX® coupling agents feature a functional group of maleic anhydride (MAH) grafted onto a polyolefin backbone. Their use enhances the strength of glass-reinforced composites by bonding the polyolefin matrix to the reinforcing strands. Greater coupling increases both tensile and impact strength.

Additive solutions incorporating PRIEX coupling agents can facilitate the use of natural-fiber reinforcements by helping the polymer matrix coat the fibers, improving structural properties and reducing moisture absorption. The purity of PRIEX products can reduce emissions of VOCs. Additional environmental benefits could be realized by the use of PRIEX additives to compatibilize dissimilar materials for effective recycling.

Complementary additive systems

ADD COMP delivers a wide range of additive technologies to improve the performance of polymer components in every phase of construction – from foundation to finish.

ADD-UV™ products provide excellent weatherability, helping reduce the time and cost of painting. ADD-AO™ anti-oxidants improve temperature stability, protecting parts during processing and improving heat-aging in the field. Other ADD COMP solutions enhance the barrier properties of extruded films used in underlayment applications. ADD-FR™ flame retardants help manufacturers meet important industry safety standards. And ADD-BLACK™ pigments simplify the production of pre-colored applications.

In addition to helping meet durability and performance targets, ADD COMP offers a variety of processing aids that can improve the surface appearance of molded or extruded components, increase manufacturing throughput, and reduce energy use.

ADD-AF™	ADD-CLEAN™	ADD-RESIST™	anti-biologicals	cleaning agents	odor reducers
ADD-AO™	ADD-DS™	ADD-SLIP™	anti-blocking agents	compatibilizers	oil and water
ADD-AS™	ADD-FR™	ADD-UV™	anti-fogging agents	coupling agents	repellents
ADD-BA™	ADD-MAX®	ADD-VANCE®	anti-oxidants	desiccants	plasticizers
ADD-BLACK™	ADD-NU™	PRIEX®	anti-static agents	flame retardants	slip agents
ADD-CL™			blowing agents	nucleating agents	UV stabilizers
			clarifying agents		

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System delivery alternatives

ADDCOMP produces a comprehensive range of polymer additive solutions for composite materials, for compounds, or for single-species resins. We can provide them as individual components or in a custom formulation of multiple additives.

Where liquid additives are appropriate, a masterbatch is supplied as pellets featuring high concentrations of additive chemistry in a matrix of select polymer. Where an additive system consists of compatible dry components, we can supply the formulation in compacted-powder form or as a powder blend. In every case, an ADDCOMP product will be configured for ease and accuracy of metering and for process flexibility in dosing.

History of success

The founding of ADDCOMP in 1998 brought together in one company a breadth of experience and a depth of understanding of additives technology unmatched in the plastics industry. Since then, we have maintained our focus on the development and delivery of additive solutions for manufacturers and compounders of polyolefins, polyesters, polystyrenes, and polyamides. In little more than a decade, we have reshaped the way our customers value additive systems.

ADDCOMP solutions are being used by manufacturers of molded or extruded construction applications worldwide. Our products can enhance the performance and processing of architectural appearance applications or extend the life of structural materials.



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