

BUILDING & CONSTRUCTION



The building and construction industry is dynamic, with trends towards high-performance buildings, elegant outdoor areas, healthier living spaces, and eco-friendly environments. You need technologies that can help you capitalize on these trends and deal with market changes. At Avient, we have solutions that will do just that.

From performance additives that focus on extending product life to special effect

colorants that create stunning results, we have technologies that can help you address your challenges. Our vast portfolio delivers product performance and processing efficiencies that will help you gain market advantages and grow your bottom line. And, robust technical support from product design through production provides even greater benefits throughout your process.



DESIGN & PROCESSING

Material flexibility and customization, extrusion and molding optimization techniques

SOLUTION: Advanced polymer science, application development, technical service



VISUAL AESTHETICS

Custom colors, deep shades, special effects

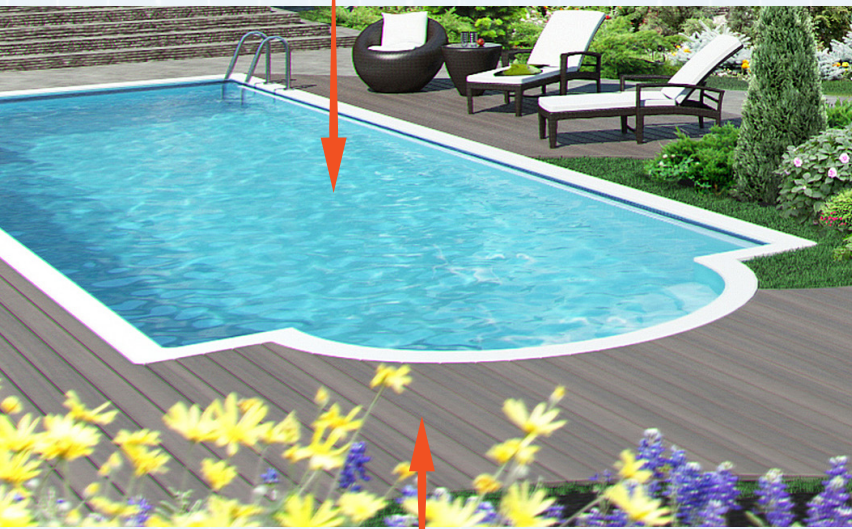
SOLUTION: Metallic colorants, granite & woodgrain effects



LANDSCAPE HARMONY

Concrete surfaces, patio coloring, stucco

SOLUTION: Pool colorants, metallic flooring colorants, stains



SURFACE FINISH

Low maintenance, natural wood grain aesthetics

SOLUTION: Wood plastic composite (WPC) capstock technology



PROTECTION

Potable water tanks, electrical connectors, piping & tubing, insulation

SOLUTION: Antimicrobials, electrical and thermal additives



DURABILITY

Wind & impact resistance, chemical resistance, weatherability

SOLUTION: Scratch & mar resistant or IR/UV resistant additives, dimensional stabilizers



SUSTAINABILITY

LEED building & material credits, healthy building, reduced energy use, lightweighting, eco-conscious

SOLUTION: Recycled materials, chemical foaming agents, bio-derived colorants & additives



LONGEVITY

Long service life, chemical resistance, mold & mildew resistance

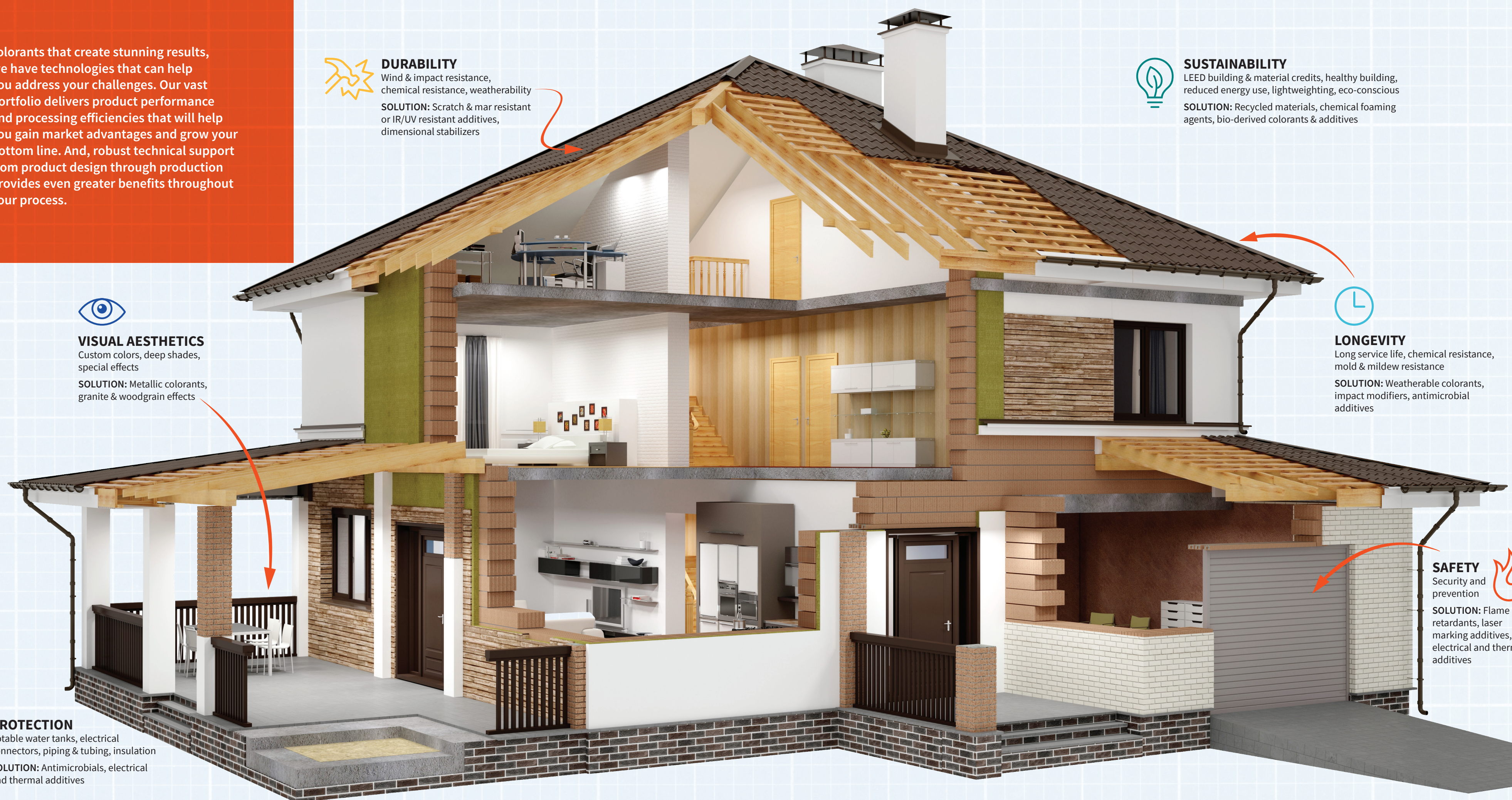
SOLUTION: Weatherable colorants, impact modifiers, antimicrobial additives



SAFETY


Security and prevention

SOLUTION: Flame retardants, laser marking additives, electrical and thermal additives



TECHNOLOGY	DESCRIPTION	TYPICAL APPLICATIONS
Antimicrobial Additives	Antimicrobial technology to limit microbe growth—reduces bacterial, mold and fungal growth on surface and through thickness, protecting finished part	<ul style="list-style-type: none"> • Potable water equipment • Decking, fencing & railings • Bath surrounds, liners & inserts • Roofs & eaves • High-touch surfaces
Scratch & Mar Resistance Additives	For applications requiring resistance to daily surface abrasion, and management of surface energy	<ul style="list-style-type: none"> • Exterior fencing, decking, railings & shutters • Outdoor furniture • Playground equipment
Flame Retardant Additives	Reduces spread of fire and heat release by creating a char to limit oxygen at the flame source	<ul style="list-style-type: none"> • Wire & cable • Decking, fencing & railings • Exterior siding & cladding • Telecommunications • Conduit • Housings
UV and Light Blocking Additives	UV stabilizers help mitigate the harmful effects of UV radiation while light blocking additives protect products sensitive to light	<ul style="list-style-type: none"> • Exterior siding & cladding • Roofing, shingles, tiles • Fencing, decking, railings & shutters • Trim & moldings • Outdoor furniture
Anti-static and Conductive Additives	Controls build-up of static charges to create static-dissipated parts while reducing related dust accumulation	<ul style="list-style-type: none"> • Electrical connectors • Junction boxes • 5G enabling • Conduit or tubing • Flooring
Chemical Foaming Agents	Reduces weight and density without compromising mechanical properties	<ul style="list-style-type: none"> • Exterior siding & cladding • Decking, fencing & railings • Modular panels
Optimization Additives	Cycle-time reducers that help optimize production while allowing improved dimensional stability and energy efficiency, among other processing benefits	<ul style="list-style-type: none"> • Used in extrusion and injection molding processes to improve thermal conductivity, and lower processing temperatures and energy consumption
Laser Marking	Supports design and production flexibility and offers a new level of control in marking polymers with speed and clarity	<ul style="list-style-type: none"> • Wire & cable • Equipment & housings • Outdoor furniture • Pipes & fittings
Anti-counterfeiting Additives	Customizable in-plastic authentication technologies that enable positive identification versus counterfeit products	<ul style="list-style-type: none"> • Wire & cable jacketing • Telecommunications • Pipes & fittings • Potable water equipment
Wood Plastic Composite (WPC) Capstock Technology	Pair with traditional WPC materials as a substrate for a durable outer layer	<ul style="list-style-type: none"> • Exterior siding & cladding • Fencing, decking & railings • Outdoor furniture
Sustainable Colorants & Additives	Color concentrates and additives carefully chosen to meet industry requirements and legislation, and designed to lower environmental impact while improving sustainability	<ul style="list-style-type: none"> • Green building roofing • Sheet & profile extrusions • OSHA compliance • LEED building & material credits
FX Special Effects Colorants	Granite, marbling, woodgrain and other distinctive colorant technologies to provide special surface effects	<ul style="list-style-type: none"> • Decorative molding • Wallcovering • Any surface or part demanding a distinctive look • Chair or hand rails • Blinds & shutters
Pool Colorants	Durable, long-lasting pigment formulations for finishes that hold up to pool water chemistries	<ul style="list-style-type: none"> • Pool decks • In-ground swimming pools • Coping
Metallic Flooring & Stain Colorants	Colorants designed to give concrete floors and surfaces a distinctive appearance	<ul style="list-style-type: none"> • Concrete flooring • Decorative concrete • Countertops • Walls

While this listing represents many Avient solutions and addresses common applications, we can tackle many other building & construction needs. Bring us your challenges and let our material experts help you find the solution that will transform your vision into reality.



Avient is a premier provider of specialized and sustainable material solutions and services that transform customer challenges into opportunities. Our range of world-class services includes:

Color Technology: Custom color design, saturated colors, and special effects to fill market niches and eliminate secondary operations

Color & Design Services: Trend and color insights, and product development assistance to optimize design and gain speed to market

Regulatory Coordination: Aid with new product approvals to reduce regulatory overhead and minimize risk

Field Technical Service: Support for tool design, startup and production optimization to gain manufacturing efficiencies

Sustainability: Innovative materials and solutions to help you meet your sustainability goals

To learn more visit www.avient.com or call 1.844.4AVIENT (1.844.428.4368)

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