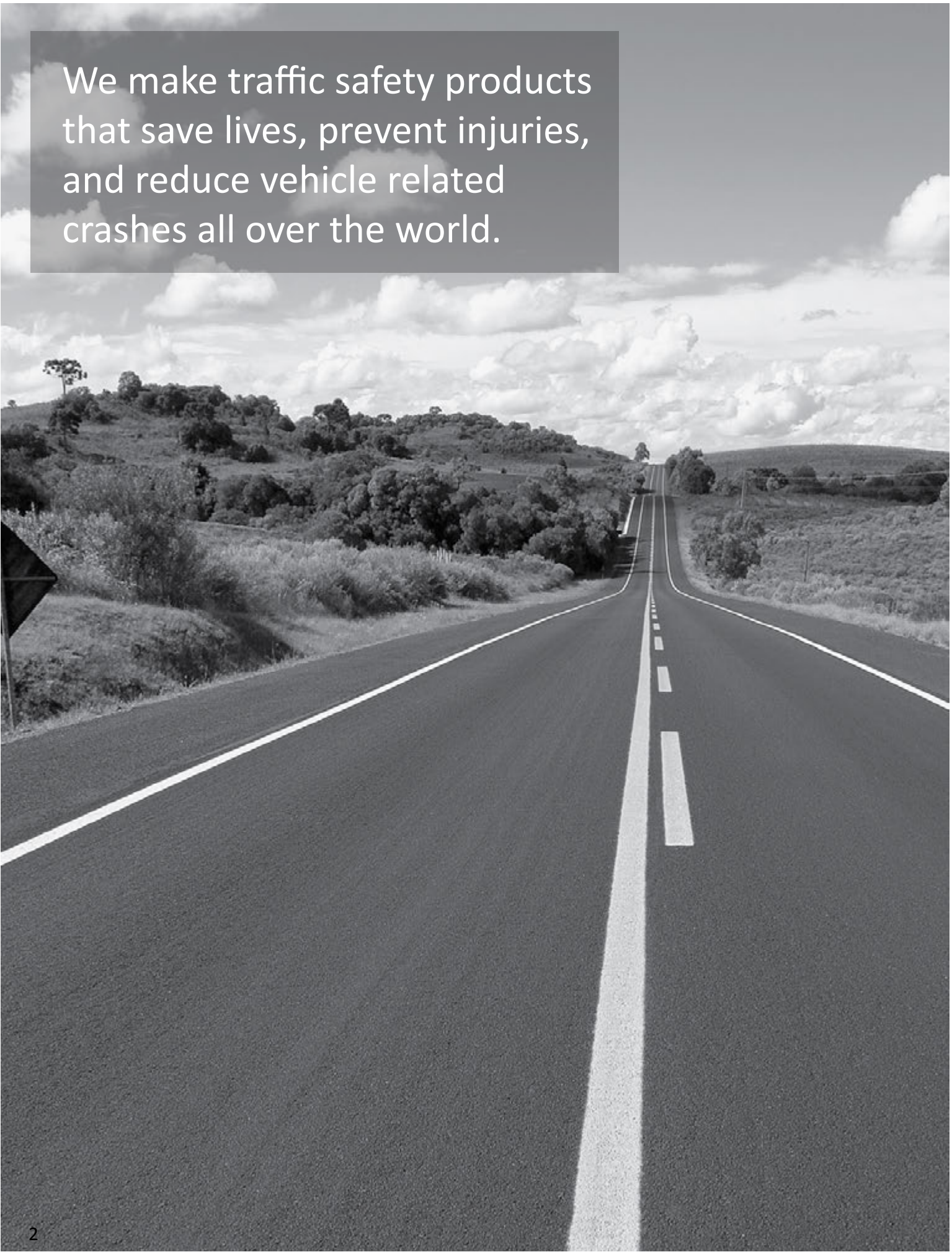




ENNIS-FLINT[®]

The Mark of Traffic Safety[®]

We make traffic safety products that save lives, prevent injuries, and reduce vehicle related crashes all over the world.



The way society moves through the world should be an afterthought.

When it comes to roads, interchanges, airports, hospitals, schools and any other place along our routes in life—we don't always think about how they are constructed or the science behind how they work—we just expect them to. That means every country, government, contractor, architect and engineer needs the right tools at their disposal to make sure the communities under their watch are protected by high-quality, well thought out infrastructure that keeps them safe and the world running smoothly. That's why every Ennis-Flint product and application is designed for quality -- quality that ensures safety, reliability and clarity no matter the project.

Regulatory Pavement Markings

Pavement markings provide traffic control, positive guidance and convey certain regulations and warnings that may not otherwise be clearly understandable.

The Ennis-Flint portfolio of products offers solutions suitable for streets and highways, rural roads and commercial property parking lots.



TrafficScapes®

A portfolio of preformed thermoplastic pavement marking materials engineered for durability, safety, and aesthetics for the streetscape and traffic calming markets.



Airport / Military

Highly visible, easy-to-understand markings that can be read and seen at any time of day or night are critical to the safe operation of any airfield.



3

Areas of Expertise

1 Regulatory Pavement Markings

Paint

Ennis-Flint manufactures and supplies a full line of traffic paints in both waterborne and solvent based formulations engineered to meet your specification whether Federal, State, local, or commercial based.

Waterborne traffic paint is based on proven acrylic emulsion technologies. Formulated for use in a wide range of applications from streets and highways to parking lots, waterborne traffic paints are suitable for application on both bituminous and concrete substrates and can be sprayed with airless or conventional spray equipment.

Solvent based traffic paints are co-polymer based and are especially suitable for colder ambient applications where waterborne may not be used.

Hot-Applied Thermoplastic

Ennis-Flint manufactures and supplies a full line of durable thermoplastic products in both alkyd and hydrocarbon formulations engineered to meet your specification whether Federal, State, local, or commercial based.

Thermoplastic pavement marking material is a 100% solid, environmentally and user safe compound containing pigments, glass beads, binder, and filler which becomes liquid when heated. In liquid form, the thermoplastic may be applied using standard industry applicators including hand-liners and truck mounted equipment. Intermixed and drop-on glass beads provide retroreflectivity for nighttime visibility of the pavement marking.

Preformed Thermoplastic

Ennis-Flint manufactures and supplies a complete line of durable preformed thermoplastic products engineered to provide optimal performance, lasting value, and to extend the life of your pavement marking program.

Most ideal for transverse markings and intersection applications, Ennis-Flint offers both a No Preheat and Preheat type of preformed thermoplastic. PreMark® and HotTape™ is formulated with the highest quality resin, binder, aggregate, glass bead, and pigment systems ensuring consistent thickness and composition to meet specifications. Precut and ready to apply out of the box, preformed thermoplastic is simple to apply with a propane heat torch.



Plural Components

Ennis-Flint manufactures a full line of Plural Component traffic marking materials. Plural Components are a sprayable combination of monomers, polymers and pigments (component-A), that when mixed with the appropriate catalyst (component-B) in a proper ratio, react exothermically to form a durable, thermoset road marking. These highly durable products are formulated to create an unbreakable bond between themselves and the substrate.

In addition to long term material presence, all of Ennis-Flint's plural components offer excellent retroreflectivity when the proper glass beads and coatings are used.

Preferential Lane Treatments

Ennis-Flint manufactures several different product technologies in various colors to promote a clear understanding of a dedicated lane's purpose for all shared roadway users. E-F green is approved by the FHWA for use in bike lanes. Terracotta and Red are utilized for delineating bus lanes. Desert khaki is established for use in pedestrian plazas and repurposed lanes.

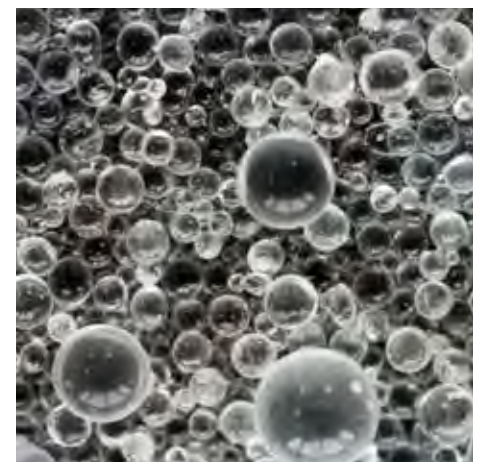
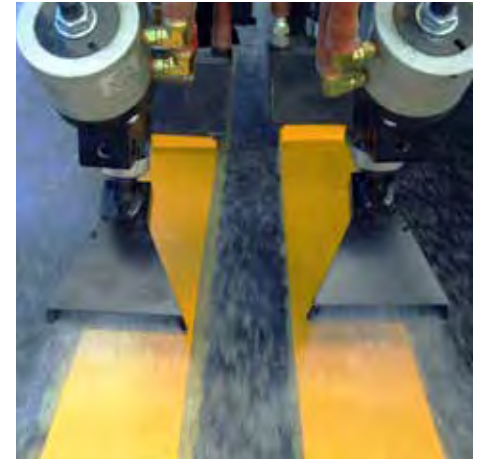
Raised Pavement Markers

Raised pavement markers play an important safety function on our roads, communicating both the travel path for short and long-range vehicle operation.

Raised pavement markers have been proven to improve delineation and increase preview time, particularly under wet conditions, and have been shown to decrease crash rates on highways with RPM center lines by approximately 0.5 crashes per million vehicle-miles. Since creating the first pavement marker more than 45 years ago, Stimsonite markers have led the industry in product innovation, quality, value and service.

Glass Beads

Pavement-marking retroreflectorization is accomplished through the use of glass beads partially embedded on the surface of the pavement marking material. Light rays entering the glass beads are retroreflected back to the driver to significantly improve pavement marking visibility in low light situations. Ennis-Flint offers three grades of beads to address varying industry requirements.



2 TrafficScapes®

TrafficScapes® is a portfolio of preformed thermoplastic pavement marking materials engineered for durability, safety, and aesthetics for the streetscape and traffic calming market designed to:

- Improve traffic safety especially at intersections and multi-use paths
- Enhance visibility for pedestrians, motorists, and cyclists
- Provide design elements that complement a Complete Streets community
- Channel pedestrians across busy commercial parking areas
- Promote and/or revitalize community image
- Attract new business development in livable communities
- Create low-cost median or island effect without the use of raised curbs
- Each product offers its own unique application and performance approach to streetscape projects where shared roadway safety and aesthetic appeal need to work in conjunction

TrafficPatterns®: Interconnected. Traditional look of brick and stone pavers

TrafficPatternsXD®: Impressed patterns

TrafficPatternsLT®: Overlay

TrafficPatternsGF®: Grout free brick and stone paver designs

DecoMark®: Horizontal surface signage / logos

DuraTherm®: Inlaid patterns



3 Airport & Military

Ennis-Flint manufactures and supplies AirMark® preformed thermoplastic pavement markings that are engineered to meet Federal specifications with the objectives of safety, durability, workmanship and proven performance

Designed for use on taxiways, ramps, aprons, gates, as well as vehicular roadways on the airside, the advantages and value of AirMark® are pronounced in the application of multi-colored markings that are typically time and labor intensive.

The homogenous composition of AirMark® supports long-term performance regarding bond, retroreflectivity, and UV resistance. The FAA requirements for multi-colored surface signage and delineation markings presents installation and maintenance concerns using traditional application methods. With preformed thermoplastic now included in the AC 150/5370-10, AirMark® provides a sensible solution with efficient life cycle performance and savings while complementing your total airfield marking program.

Crosswalks
Medians
Islands
Roundabouts
Entryways
Logos

Taxiways
Ramps
Aprons
Gates
Airfield
Vehicular
Roadways



MARKETS SERVED



GOVERNMENT

Governments, city planners, traffic engineers and others with the responsibility of selecting and maintaining pavement markings recognize the importance of clearly visible pavement markings and retroreflectivity in reducing traffic accidents and improving road safety.



CONTRACTORS

Ennis-Flint provides contractors and sub-contractors with easily-applicable pavement marking products for regional or state government projects, private property work or commercial contract applications.



COMMERCIAL

Any road traveled by the public, including private roads near commercial buildings and parking lots near private enterprises must comply with federal traffic marking and signage standards. This includes shopping centers, restaurants, office parks, industrial facilities or any privately-owned space.



ENGINEERS & ARCHITECTS

Architects and engineers assure that the pedestrian and traffic markings defining crosswalks, traffic routes and other features fit into the overall design aesthetic. Ennis-Flint stylized surfaces and marking materials are used to maximize pedestrian, cyclist and driver safety while providing for a comfortable atmosphere.



MILITARY & AIRPORT

For pilots, ground crews, maintenance and traffic management personnel, highly visible, easy-to-understand markings that can be read and seen at any time of day or night are critical to the safe operation of any airport.

AMERICAS PORTFOLIO AT A GLANCE

PAINT

Waterborne
Solvent Based

THERMOPLASTIC

Pavemark®
Thermo-Quik®
Permaline®
Vibraline®

PLURAL COMPONENTS

HPS®-2 Slow-cure epoxy
HPS®-3 Fast-cure epoxy
HPS®-4 Rapid-cure epoxy
HPS®-5 Polyurea
HPS®-6 MMA
HPS®-7 Structured MMA
CycleGrip®MMA
Vibraline®

INTEGRATED MULTIPOLYMER

HPS®-8

PREFORMED

THERMOPLASTIC

PreMark®
HotTape®
TopMark®
AirMark®

PAVEMENT MARKERS

Snowplowable
Surface Mounted

RETROREFLECTOMETERS

Delta LTL-X Mark

TRAFFICSCAPES®

TrafficPatterns®
TrafficPatternsGF®
TrafficPatternsXD®
TrafficPatternsLT®
DecoMark®
DuraTherm®

RESEARCH & DEVELOPMENT

Located on our Thomasville, NC campus, our Science & Technology center supports major innovation initiatives for Ennis-Flint. These include extensive customer application simulation testing, design of experiment testing, prototyping, as well as analysis and engineering of paints, thermoplastics and MMA.

Our Science & Technology center employs more than 35 scientists, engineers and technicians. Microscopy, dry time testing and accelerated aging rooms and even an airfield simulation area enable a variety of coating trials to accelerate the product development process.



FOCUS ON QUALITY

Ennis-Flint North America, is ISO 9001 2015 certified. This certification includes all of our corporate, R&D, and manufacturing locations in North America. ISO 2015 certification demonstrates our ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements.

Our commitment to this level of certification reflects our desire to enhance customer satisfaction through the effective application of the quality management system, including ongoing processes for improvement.

TECHNICAL SERVICES

Our network of technical service professionals is focused on helping you unlock the value from your investments and maximize uptime to keep your business running smoothly. Services provided include:

- Training
- Demos and test decks
- New product installation
- First-time use of "higher tech" products
- Product application analysis
- Technical recommendations:
 - Equipment
 - Application techniques
 - Best practices
- Assistance with equipment calibration



● Manufacturing/Distribution
● Technical Services



GLOBAL NETWORK



 @EnnisFlint
 Ennis-Flint, Inc.
www.EnnisFlint.com


ISO 9001 :2015

Certified
Quality management systems in place in all of our corporate, R&D, and manufacturing locations in North America.

20+
Manufacturing and Distribution Locations

Strategically placed global manufacturing and distribution centers allow us to get you the materials you need, when you need them.

60+
Sales Managers / Sales Directors

Our pavement marking experts are your source for information on the latest product innovations and industry best practices.

90+
Countries Served



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