The first highly polymer-modified asphalt binder that meets the FAA P-601 Specification for Fuel-Resistant Hot Mix Asphalt Pavement.
Airports using a P-601 mix containing StellarFlex FR® asphalt binder

Logan International Airport, Boston, MA

StellarFlex FR® Fuel Resistant Asphalt

Resisting fuel, cracks and ruts since 1996

The first FAA-specified fuel-resistant asphalt pavement

StellarFlex FR® is a highly polymer-modified asphalt binder formulated for the extreme stresses that airport pavements must endure: exposure to jet fuel and the enormous weight of slow-moving aircraft.

Safe and worker-friendly, StellarFlex FR® features a polymer modifier that allows asphalt to resist damage from jet fuel and hydraulic oil, as well as rutting and cracking. In the process, StellarFlex FR® eliminates the need for coal tar sealers and extends pavement life substantially.

Backed by a proven, 20+ year track record of success, StellarFlex FR® is the first product to meet the FAA’s “P-601, Fuel Resistant Hot Mix Asphalt Pavement” specification.

Cost-effective production, application and wear

Asphalt mixes using StellarFlex FR® can be produced at any hot mix plant without the need to modify equipment or operating procedures, so production and application doesn’t generate additional operating expenses.

StellarFlex FR® need only be used in the surface layer of the pavement (minimum 1.5” thickness) to deliver years of superior protection against fuel and pressure-induced failure modes – without the recurring costs or health risks of coal tar sealers. Some StellarFlex FR® airport pavement applications have been in place for more than 15 years and show no signs of rutting or cracking.
After 24 hours in jet fuel, the StellarFlex FR® difference is clear

To meet the FAA’s P-601, Fuel Resistant Hot Mix Asphalt Pavement specification, compacted asphalt mix samples must not lose more than 2.5% of their weight after being immersed in jet fuel for 24 hours. As the below photos show, P-401 with PG 64-22 lost 10% of its weight after the 24-hour soak, while P-601 with StellarFlex FR® lost only 1%!

Protecting airport pavements worldwide

In use internationally since 1996 and in the US since 2002, StellarFlex FR® has been applied at some of the world’s busiest international airports and several general aviation aprons, protecting those fields from jet fuel, hydraulic oil, de-icing fluids and extreme surface stresses.

LaGuardia International Airport,
New York City, NY
2002 – Taxiway reconstruction

Logan International Airport,
Boston, MA
2004 – Taxiway N and Runway 4L-22R resurfacing

Logan International Airport,
Boston, MA

Douglas International Airport,
Charlotte, NC
2006 – Runway 18L-36R resurfacing
THE MCA ADVANTAGE

With the MCA Advantage, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes and material selection. By developing innovative, custom-designed products that offer additional benefits, such as peak performance in unique conditions, improved field performance, greater environmental and health benefits, the MCA Advantage provides significant long-term cost savings, resulting in lower “total cost of ownership.”

For more information about StellarFlex FR® and other McAsphalt products, call 800.268.4238.

StellarFlex FR® is a registered Trademark of Associated Asphalt Marketing, LLC.
Canadian Patent Pending.