The Revolutionary Approach to Pavement Maintenance

Stop Runway Incursions

FAA Runway Incursion Statistics

Year	OE/D[a]	PD[b]	V/PD[c]	Misc	Total
2004[d]	69	137	47	0	253
2003[e]	90	174	60	0	324
2002	75	191	73	0	339
2001	88	214	81	0	383

a) OE/D - Operational Error/Deviation
b) PD - Pilot Deviation
c) V/PD - Vehicle/Pedestrian Deviation
d) FY2004 as of 7/20/04
e) FY2003 as of 9/30/03

In mid-1999, FAA Administrator Jane F. Garvey made runway incursion reduction the agency's number one priority. Steps include improving runway markings. Data shows runway **incursions jumped by 75%** from 1993 to 1999 and an **18% increase** occurred in 2000 (Aviation Week, 6/26/00). A new study shows this trend is continuing. **Eleven collisions**, dating back to 1972, have **killed 719 people**. The National Transportation Safety Board has placed reducing runway incursions on its "Most Wanted" list (FAA Hot News, 7/17/04).

Traditional pavement marking products start to break down from ultraviolet radiation(UV) and other environmental degradation as soon as they are applied. Given limited resources or budgetary constraints, many runway holding position markings are frequently neglected far past their intended life expectancy. Such oversight can lead to dangerous runway incursion potential. **Permastripe®** durable pavement marking products are specially engineered, extremely durable, polymer modified cementitious compounds that are unaffected by UV and other unfavorable environmental conditions. Install **Permastripe®** pavement markings over either concrete or asphalt to virtually eliminate frequent maintenance and improve the safety margins of your airport.

Merritt Island Municipal Airport
Florida - October 2003

Calgary International Airport
Alberta, Canada - August 2004

"Last year Polycon installed a holdbar...at the intersection of 16/34. We have been monitoring it for over the past year and we have been very impressed with the final results strictly from a durability point of view." - Stan Ma, Project Manager, Tess Engineering Consulting Services

"We run snow removal activities with carbide tipped steel blade snowplows that run right on the ground. They chip away the paint and glass beads. We noticed no such deterioration on the Permastripe® product. So in essence, for us, we're looking forward to having these holdbars down where they're going to maintain their visibility, their reflectivity, and there's going to be no deterioration and that's just going to lead to a safer environment on the airport." - Jim Lightfoot, Airside Supervisor, Calgary Int'l Airport

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PolyCon® Systems, Inc.

Permastripe®

Polycon's polymer modified cementitious durable pavement marking has a life expectancy of up to 10 years and meets or exceeds FAA retro-reflectivity and chromaticity requirements.

Description

Permastripe® pavement marking systems are polymer modified cementitious, reflective and durable marking compounds designed for use on either concrete (PCC) or **asphalt** (AC) pavements.

Features/Benefits

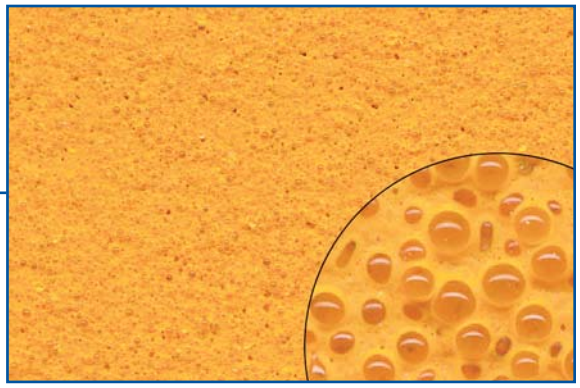
- Long life expectancy and durability
- Reflective
- Snowplow resistant
- Cost effective alternative to annual re-striping
- Rapid setting
- Short downtime
- Excellent wear resistance
- Adheres to asphalt or concrete

Curing

On a day with a 75ºF temperature and 50% - 75% relative humidity, the curing time can be as little as 2 hours. The hotter the temperature is, the faster the cure time will be.

Install a runway holding position marking constructed of **Permastripe®** durable pavement marking material and eliminate a need for frequent maintenance.

Permastripe® pavement marking with Type I glass beads applied to surface



Permastripe® Performance Data

Compressive Strength	ASTM C-109	3950 PSI
Flexural Strength	ASTM C-238	1835 PSI
Tensile Strength	ASTM C-190	615 PSI
Shear Bond Adhesion	ASTM C-882	>550 PSI
Chemical Resistance	ASTM C-2299	Unaffected
Slip Resistance - Wet	ASTM D-2047	0.74
Slip Resistance - Dry	ASTM D-2047	0.78
Accelerated Weathering (4000 hrs)	ASTM G-23	Unaffected
Shrinkage	ASTM C-596	Exceeds standards

1) The data shown is representative of laboratory tests two (2) days moist cured samples. Reasonable variations from results shown may be experienced as a result of atmospheric and job site conditions. Mix entire sample kit of Permastripe when preparing compressive strength specimens.

2) Composite beam prepared by overlaying 1/16" of product on 1/4" concrete wonderboard.

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