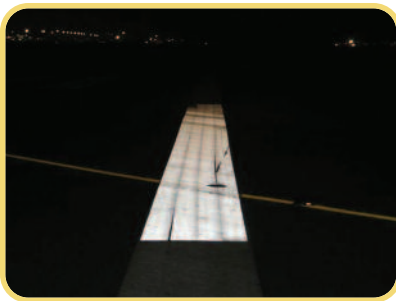


FaSTRACK™
ROAD MARKING TECHNOLOGY

FASTRACK™ HD-21A IS COMING TO AIRPORTS AROUND THE GLOBE!



Nighttime shot at Bahrain International Airport taken ~ 1 year after application of high durability (Type III) waterborne paint based on Fastrack HD-21A and high index glass beads (Type III).

When the Federal Specification TTP-1952D was revised to include a Type III material for increased durability (now TTP-1952E), we knew that our Fastrack HD-21A polymer fit the bill. “The Type III material, using Fastrack HD-21A based paint, is being utilized at an increasing number of airports, so I was not surprised to hear that it was being evaluated in such far away places as Bahrain,” commented Cindy Randazzo, Traffic Paint Technical Service Manager, Dow Coating Materials. The Civil Aviation

Affairs for the Kingdom of Bahrain had

enlisted a consultant to assist with improving their current marking procedures. At the Bahrain International Airport, an increasingly busy hub for the Middle East, they wanted to reduce marking maintenance cycles, reduce maintenance costs, improve the appearance of their markings, and enhance safety.

Initially, the airport markings were based on a chlorinated rubber paint and a low index glass bead. These markings were rated poor to fair and showed signs of deterioration and cracking. The consultants trained the contractors in good application procedures and introduced waterborne paint. The Type III paint (high durable paint based on Fastrack HD-21A) was coupled with high index beads for maximum visibility, durability, and safety. One year after application, these waterborne markings were evaluated and found to be shining brightly as an example of quality markings.

Consultant: Sightline AMC, Culpeper, VA. Fastrack HD-21A paint: Safety Coatings, Foley, AL

SAFETY + SAVINGS ON THE SIDE OF THE ROAD

What do you do when your budgets are being slashed and every dollar is scrutinized to confirm it’s returning value? When the safety of the driving public is at stake, you can’t just stop all activity. The answer is—“Think outside the box.”

Thinking “outside the box” is exactly what Potters Industries, Inc. has done with their new UltraGuard system that makes roadway barriers and guardrails visible while saving time and money.

Having guardrails and barriers that are visible at night is an integral part of their purpose, although one that does not come cheaply. The standard methods involve the placement of reflective tabs, panels, or tape. In addition to the very high cost of these reflective materials, the additional labor cost to install them is significant. When these barriers and guardrails are reflectorized in the field, the very act of installing the safety material can be dangerous! Due to the slow application process, workers can be exposed to traffic for many hours. This new UltraGuard system uses waterborne traffic paint and glass beads to provide the same effect but at a much lower cost and with less risk to the applicator. With this new application device, standard waterborne traffic paint and Potter’s high index glass beads, barriers and guardrails can be made visible at a fraction of the standard cost. In addition, this new method of applying paint and beads provides “continuous visibility” as opposed to the intermittently placed reflectorized tabs or panels.

This system was trialed recently in Dallas, Texas on a HOV barrier wall. The district personnel involved with this test were very satisfied with the initial results and plan to expand the testing. “We are very impressed with the



Finished project: 1.1 miles of 6 inch yellow paint stripe on HOV barrier wall on I-30 in Dallas, TX.

brightness of the marking. It really stands out, especially in the rain,” states Jason Mashell of TX DOT. Other states are also looking to this system of waterborne paint and high index glass beads to improve the visibility of their barriers. This system is ideally suited for those who are charged with keeping drivers safe at an affordable price.

Editor’s Note

In April 2009 Rohm and Haas was acquired by the Dow Chemical Company creating the new Dow Coating Materials.

The newly formed organization offers a unique perspective to the global coatings market, providing strong global reach, highly innovative product lines, world class technical expertise, a strong commitment to sustainability and most important, customer satisfaction.

Look for additional information about Dow Coating Materials in future issues of *The Road Forward* and how we’re working to bring you the most innovative, sustainable, and technically superior products in the coatings industry.

SAFETY + SAVINGS ON THE ROAD

Everyone recognizes the importance of providing good visibility on our roadways, especially at night. What may not be as easily recognized is the *value* that waterborne traffic markings provide. The results from a recent 2008 ATSSA Survey* offer a look at the various pavement marking technologies, their respective cost and their service life. As expected, costs and service life varied somewhat from state to state, but an average of the results are listed in the table below.

Marking Material	Averaged Cost (\$ / ft)	Averaged Service Life (years)	Averaged Life-Cycle Cost (\$ / ft / year)
Standard Waterborne Paint	0.08	1	0.08
High Build Waterborne Paint	0.13	2	0.065
Spray Thermoplastic	0.33	3	0.11
Epoxy	0.30	3	0.10
Tape	2.70	5	0.54
Polyurea	0.71	4	0.18

This 2008 ATSSA survey of 11 states found that standard waterborne paint offers 2 to 3 cents per foot savings over epoxy and thermo on an annual basis (Cost per foot per year). The use of a high build waterborne realizes an **additional** 1 cent per foot savings per year. This may sound like pennies, but it adds up quickly when you consider the extensive system of roads our Departments of Transportation are responsible for!

*2008 ATSSA Pavement Marking Survey presented and distributed to the ATSSA pavement marking committee members.

For additional information, contact your Dow representative or visit us at go.rohmhaas.com/fastrack.

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Coating Materials