

Warm Mix Asphalt

With Sustained Time-Release Technology

Advera® WMA

Vol. 2, Number 4

High RAP in Cool Weather

MILLER PARK, MILWAULKEE, WISCONSIN– November 2007

Project Details:

Location: Miller Park
Milwaukee, Wisconsin

Agency: City of Milwaukee, WI

Contractor / Producer: Payne &
Dolan, Inc. Waukesha, WI

Ambient Temperatures:

Ambient Temperatures during
placement were 40°-45°F

Production:

Equipment:
Counter Flow Dillman Drum
Plant

Placement:

Equipment:
Blaw Know PF 3200 Paver
with Carlson EZ IV Screed

Rollers – 2x Hypac 778
Rollers



Mix Design: Super Pave Mix Design:

19 MM Mix

75 Grayation Super Pave Mix
PG 64-22
Total Binder: 4.5%
Advera® WMA: .25% wt of mix
Fractionated RAP: 25%
ESAL Range (Mil) 0.30 - < 1.0

12.5 MM Mix

75 Grayation Super Pave Mix
PG 64-22
Total Binder: 5.2%
Advera® WMA: .25% wt of mix
Fractionated RAP: 25%
ESAL Range (Mil) 0.30 - < 1.0



Tonnage (WMA): 4,500 tons,
2x1-1/2" 19mm base course &
1x1-1/2" 12.5mm surface course

Production Temperatures:

HMA: 320°-330°F
Advera® WMA: 270°-275°F

Placement temperatures:

HMA: 290°F
Advera® WMA: 245°F



ADVERA® WMA Benefits:

- Densities as good control and surpassed specification even with:
 - Ambient temperatures below 50°F
 - 25% RAP Base and Surface Lifts
- Production Temperatures 50°F below control
- Less Blue Smoke and Odors
- Better Paving Crew Environment
- Ease of Handwork, even at 245°F
- More Consistent Densities across the mat