

# Superpave Durability NJ Task Force Evaluation Approach

October 22, 2004

# Why The Evaluation

After The 2003 Paving Season

**Suppliers And Paving Contractors**

**Complained About**

**Superpave Mixtures**

# COMPLAINTS

- COLD

- WEATHER

- PAVING

# COMPLAINTS

- Dry Looking Mixes
- Mixture Segregation
- Raveling of The Mixes
- Low Binder Contents





***THIS MIX IS TOO HOT***

# Phase #1

- Develop A Survey
- Objective, Find The Scope of The Problems
- Submit Survey To Suppliers and Pavers
- **NO RESPONSES**



## Phase #2

- NJDOT Thinks Survey Is A Good Idea!
- Submits Survey To DOT Field Engineers
- Responses To Date
- Superpave Is Doing Very Well

**SURVEYS**

**NOT VERY**

**SUCCESSFUL**



# Phase #3

- Our First Superpave Projects
- Are Now about 7 or 8 Years Old
- We will Develop A Review Team
- And Evaluate These Early Projects

NJDOT Has Followed The  
Superpave Specifications  
With Only Slight Changes  
To Thickness Ratio

12.5mm & 19mm Now 4:1

NJDOT Believes The Superpave  
System Has Worked Well To Date  
But Some Changes are Being  
Considered

Change The Name

From Superpave

To

**HMA**

Discontinue The Use of

Traffic Level “V”

(Very Heavy Traffic)

**Mix is Too Dry**



Plan To Use H Mixes

(Heavy Traffic Level)

With Binder Grades

PG 64 -22 or PG 76 – 22

Increases % Binder

# Discontinue Use of 19mm Mix For Surface Course Mixes

Less Hand Work

Less Raveling

Use 12.5mm Mix

Traffic Level M

Surface Course Mix

With Binder Grades

PG 64 – 22 or PG 76 – 22

Increases % Binder & Skid #

Use 19mm Mix

Traffic Level M

As Standard Base Mix

Increases % Binder

**Use 9.5mm Mix**

**Traffic Level M**

**For Driveways, Leveling**



**Introduce 4.75mm Mix  
For Very Thin Applications**

Percent Passing #8 Sieve  
Specifications Changed to  
Make Mixes Finer

- Limit 25mm Mix to  
Base Courses (Without Traffic ?)  
  
Because It  
  
Segregates and Lose Aggregates  
  
Cause Broken Windshields













NO LEFT TURN

Dukes

AVIS

AVIS

INGERSOLL-RAND









NO LEFT TURN

Dukes Play West





3042

DD-110HF

NO LEFT TURN

Dukes Hwy West



NO LEFT TURN

Dukes Pkwy West

Talbert

BLAW-KNOX

+ 2 1/2











