Safer Roads Conference TS 2010 a surface course designed for safety





Introduction



- TS2010 the important bits
- Brief overview of research
- Safety aspects
- Going forward





Joints





M8 Junc 5 to 6 Research Project





Application of coated grit







Close-up of 0/14mm before (left) and immediately after (right) gritting







Size matters !



Increasing size







Summary : manufacture and laying



•Different compositions can be successfully manufactured and laid

•Early indications show that the materials provide a good ride quality

•Based on low void contents and higher bitumen contents - potential for improved durability

User Safety Important

Skid Resistance Measuring Devices





SCRIMtex:

- Standard device used to monitor wet skid resistance (SFC) in UK
- Also carries a laser sensor to measure SMTD
- 1000 (10m) measurements



GripTester:

- Smaller piece of kit that measures the GripNumber (GN).
- Designed and developed initially for use on airfields
- Used by many local authorities primarily because of its small size, added manoeuvrability, and low cost.
- 11,000 (1m) measurements



Pavement Friction Tester (PFT):

- Measures locked-wheel friction number (Fn)
- Research tool for wet and dry for speeds up to 120 km/hr
- Locked-wheel technique is the best way of measuring sliding friction directly at a specific speed.
- > 300 individual skid tests









TRANSPORT

Low-speed wet skid resistance – before opening to traffic





Lowspeed wet skid resistance – after opening to traffic



SCRIM at 50 km/h over 3 visits (NS wheelpath)





SCRIM at 50 km/h over 3 visits (Centre of lane)



Equilibrium phase

Low Speed (wet)







Skid Resistance

Site	Measuring speed (km/h)	Mean Grip Number		Equivalent SCRIM
Class *		After 4 weeks trafficking	After 6 months trafficking	
1	50	0.62	0.62	0.55
2	50	0.67	0.67	0.60
3	50	0.72	0.72	0.65

Remember – Coated Grit applied for early life skid issue



Stage 4 – Final Approval

Property	Test method/procedure	Limits
CSC value after a minimum of 2 years*	BS 7941-1:2006	As per requirements of HD 28/04 (DMRB 7.3.1)



We are getting there!

http://www.transportscotland.gov.uk/files/documents/roads/TS2010_Ver_01_Dec_10_PDF.pdf

S (4 90)