### Results: Retro-reflectivity

#### KSD Material 1 (PMMA)

- **Test Date**
  - Sept '05: 409 mcd (Overall), 226 mcd (WP)
  - Dec '05: 643 mcd (Overall), 364 mcd (WP)
  - Jun '06: 226 mcd (Overall), 118 mcd (WP)

#### Material 16 (WB Paint)

- **Test Date**
  - Jun '06: 226 mcd (Overall), 118 mcd (WP)
  - Dec '05: 382 mcd (Overall), 265 mcd (WP)

### Results: Retro-reflectivity

#### Material 5 (WB Paint)

- **Test Date**
  - Sept '05: 284 mcd (Overall), 136 mcd (WP)
  - Dec '05: 284 mcd (Overall), 136 mcd (WP)

#### Material 13 (PF Thermo)

- **Test Date**
  - Sept '05: 74 mcd (Overall), 32 mcd (WP)
  - Dec '05: 74 mcd (Overall), 32 mcd (WP)

#### Material 14 (Tape)

- **Test Date**
  - Sept '05: 352 mcd (Overall), 176 mcd (WP)
  - Dec '05: 352 mcd (Overall), 176 mcd (WP)

#### Material 16 (WB Paint)

- **Test Date**
  - Sept '05: 352 mcd (Overall), 176 mcd (WP)
  - Dec '05: 352 mcd (Overall), 176 mcd (WP)
**RRPM’s**

- Adhesives for RRPM’s
  - Hot Melt Bitumen Pad
  - Two-pack Epoxy (Hilti Gun)

- RRPM’s applied with Hot Melt Pads performing well, some acceptable shoving apparent;
- RRPM’s applied with Two-pack Epoxy have delaminated (Dec ‘05 - 3 months).

**Conclusions**

- Large difference in performance between sites - traffic impact on Kingsford Smith Drive far greater than Gregory Terrace;
- Best performers on KSD and GT:
  - Material 1: PMMA (not installed at GT);
  - Material 5: WB Paint;
  - Material 13: Preformed Thermoplastic;
  - Material 14: Permanent Tape (Good early results, deteriorated rapidly later)
  - Material 16: Machine Applied WB Paint;

- Material 1 - PMMA: most consistent performance, retro-reflectivity less than target installation values, but exceeds intervention standard;
- Material 16 - applied with Longitudinal WB Paint Machine has performed well, exceeds most of the ‘traditional’ longlife materials;
- Results from Material 16 (& Materials 19-21 applied later) appear to verify approach taken in revised S150.

**Linemarking Tapes & Timber Boardwalks**

- Linemarking Tape on Timber Boardwalks;
  - Kangaroo Point;
  - Cultural Centre Boardwalk;
  - Boondall Wetlands Boardwalk.
- Kangaroo Point site has been installed for over 2½ years (approx. 30m);
- Approximately 100m installed at Cultural Centre and 600m at Boondall Wetlands.
Luminous Material

- Possible uses for areas where guidance etc. is required, but external light unavailable;
- Trial of Luminous Products for Night-time Safety (Especially on Bikepaths);
  - Signs;
  - Tapes;
  - Delineators.

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