In-situ Recycling with TerraLoc

TerraLoc is a patented mixture of bitumen emulsion, synthetic resin and water. The resin evenly improves the strength and adhesion of the bitumen to aggregate, allowing less bitumen to be used.

This mixture is mixed into existing surfaced roads or the base course of new roads and then compacted. The road is then surfaced with a bituminous seal or asphalt.

The road is rehabilitated making maximum use of local materials and in many cases can be opened to traffic within 1 day of surfacing.

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TerraLoc:
Getting more out of bitumen emulsion stabilization

It works with a variety of material sources; from sands for low volume roads, natural gravel for medium volume roads, crushed stone & reclaimed asphalt for high volume.

- It adds stiffness into the pavement structure from the base course down, often meaning faster construction.
- It can often use the materials that are in-situ, meaning less materials transport (especially in urban areas where traffic delays are problematic)
- Can be easier for contractors to build than other good base materials
- Good combination of strength, flexibility and water resistance makes for an excellent base course.
- it uses no cement, which allows for early trafficking of the roads (e.g. build Friday, prime and seal on Sunday, open to traffic on Monday).
- SAPEM 2013 and Agrémént created regulatory framework to allow use. Manuals are available for design and quality control.
- Can be used in roads from 0.3MESA to over 30MESA (has carried over 50MESA in practice) (MESA = Million Equivalent Standard Axles)
- It is cold applied and is the same hazard class as standard bitumen