

## Recommended evaluation program when using REDISET system

### General

First of all perform the normal method of optimising your mix design for the selected hot mix type to meet your local specifications. When the mix design has been approved the tests can be repeated by adding REDISET at 2% (by weight of the bitumen content) to the bitumen. Please make sure that REDISET is thoroughly blended into the bitumen prior to use. If it is not part of the mix design we recommend that ITSR and some type of Wheel Track method are added to these tests. This is important to measure as the REDISET system also provides improved adhesion and rut resistance properties. When REDISET is used the mixing- and compaction temperature can be lowered by approx. 30°C.

### Lab procedure for mix design

- Normal mix design procedure
  - Gradation of aggregate
  - Bitumen content
  - Bitumen type
  - Air voids content
  - Adhesion value
- ITSR
- Wheel track

### During field trial

When doing a field trial we recommend to measure, test and report the following

#### *During production*

- Measurements of temperatures at:
  - Raw material temperatures
  - Mixing temperature
  - Loading into truck
- Power usage of the mixer
- Emmissions, CO<sub>2</sub>, CO, NO<sub>X</sub>
- Fuel consumption heating aggregate

#### *While paving*

- Density development (by a nuclear gauge) after each passage of roller
- Measurements of temperatures at:
  - Truck
  - Paver
  - During Compaction

#### *After completion*

- Pavement properties:
  - Air voids content (coring)
  - Evenness
  - Ruts
  - Skid resistance
  - Texture

*Lab trials on mix samples taken during full scale production*

- Mix composition:
  - Bitumen content
  - Aggregate gradation
- Bitumen properties
- Air voids content by using Marshall
- ITSR
- Wheel track test