

Helix TSMR Even Distribution Tests – 30kg/m³ dosage

The test procedure was carried out as follows:

- 3m³ concrete mix with 90Kg of Helix (ie 30Kg/m³) added at the batch plant. This concrete mix was a self-compacting mix with a slump 160mm +.
- During the pour, three concrete cylinder samples were kept – one at the beginning, middle and end of the pour.
- Cylinders are 100mm in diameter and 200mm deep which equates to 0.00157m³ in volume
- Cylinders were then washed out with only the aggregate and the Helix remaining in the tray.
- Using a magnet, the Helix was collected and weighed accordingly
- The following three results were documented:
 - 49.9 grams = 0.0499kg
 - 49.7 grams = 0.0497kg
 - 47.6 grams = 0.0476kg
- When divided by 0.00157m³ this equates to a dosage of Helix equalling
 - 31.8kg/m³ of Helix
 - 31.7kg/m³ of Helix
 - 30.3kg/m³
- This averages out to 31.3kg/m³ of Helix which is within the +-5% tolerance
- Helix has successfully proven that when mixed in the concrete truck it evenly disperses in the mix allowing for an accurate design and structural behaviour.



Concrete poured in cylinder



Concrete tipped in tray



Concrete tipped in tray



Concrete hosed down



Aggregate and Helix TSMR remain and tipped into tray and Helix TSMR removed with magnet



Helix TSMR weighed on scale. Total weight equals 248.2g-200.6g equates to 47.5g





Close up of Scale weight of Helix TSMR (including container)