CLAIMS

1. A method for laying paint indicia on a road surface, the method including:

laying a base coat of paint;

allowing the base coat of paint to dry to bind the base coat to the road surface;

selecting a pre-defined binary signal for transmission from the paint indicia; and

applying a plurality of magnetic particles within the base coat of paint, the magnetic particles being applied in accordance with the pre-defined binary signal, wherein the placement of the plurality of magnetic particles is carried out using an apparatus with a paint outlet and an electromagnet, the electromagnet being activated to align the magnetic particles in a manner where desired binary signal is transmittable.

2. The method of claim 1, further including laying a secondary coat of paint onto the base coat.

3. The method of either claim 1 or 2, wherein the plurality of magnetic particles are placed within the base coat of paint to transmit the pre-defined binary signal.

4. A method for laying paint indicia on a road surface using a plurality of receptacles each containing both paint and magnetic particles, the method including:

emptying each receptacle in a pre-determined sequence,

wherein the magnetic particles in each receptacle are aligned using an electromagnet after each receptacle is emptied.

5. The method of claim 4, wherein emptying each receptacle in a pre-determined sequence comprises emptying each receptacle using an apparatus having a paint outlet and an electromagnet, the electromagnet being activated to align the magnetic particles in a manner where desired binary signal is transmittable.

6. The method of claim 4 or 5, further comprising:

laying a base coat of paint;

allowing the base coat of paint to dry to bind the base coat to the road surface; and

selecting a pre-defined binary signal for transmission from the paint indicia, and wherein emptying each receptacle in a pre-determined sequence comprises applying plurality of magnetic particles within the base coat of paint, and wherein aligning the magnetic particles in each receptacle using an electromagnet after each receptacle is emptied comprises aligning the magnetic particles in accordance with the pre-defined binary signal.

7. An apparatus for laying paint indicia on a road surface, the apparatus comprising:

a paint outlet for egress of paint, the paint including a plurality of magnetic particles; and a

magnetic force generator for aligning the magnetic particles at the paint outlet in a manner where a desired binary signal is transmittable.

8. The apparatus of claim 7, wherein the magnetic force generator is an electromagnet.

9. The apparatus of either claim 7 or 8, further comprising a controller for activating the magnetic force generator, and for operating the paint outlet.