

PRODUCT DATA SHEET

MODIFIED 80/20 SLAG ROAD BASE

Product Code: RBM800

PRODUCT DESCRIPTION

ASMS RBM800 is a high quality heavily bound Road Base.

APPLICATIONS

ASMS RBM800 is used in a variety of rigid pavement applications.

COMPOSITION AND MATERIALS

RBM800 is a blend of graded air-cooled blast furnace slag and granulated blast furnace slag in nominally 80/20 volumetric proportions modified with a slag cement/lime binder.

Blast furnace slag is the non-metallic product consisting essentially of silicates and aluminosilicates of calcium and other bases developed in a molten condition simultaneously with iron in a blast furnace.

Air-cooled blast furnace slag is a predominantly crystalline, solid rock-like material. Granulated blast furnace slag is a glassy, granular product.

ADVANTAGES

- Inherent cementitious properties.
- Interlocking particle shape.
- Ease of compaction.
- Advantageous placement working life.
- Long term strength gain.
- Lower tonnage required per cubic metre.
- Potential to reduce asphalt layer thickness in selected applications.
- Effective utilisation of an industrial by-product conserving natural resources.

TYPICAL GRADING

| SIEVE | % PASSING |
|---------|-----------|
| 26.5 mm | 100 |
| 19.0 mm | 95 – 100 |
| 13.2 mm | 70 – 90 |
| 9.5 mm | 60 – 80 |
| 2.36 mm | 30 – 50 |
| 425 µm | 10 – 25 |
| 75 µm | 4 – 12 |

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | UNIT | TYPICAL |
|---------------------------------------|------------------|-------------|
| Maximum Dry Density | t/m ³ | 2.0 - 2.2 |
| Optimum Moisture | % | 11 – 14 |
| Misshapen Particles (2:1) | % | 5 - 20 |
| Dry Strength | kN | 75 – 110 |
| Wet Strength | kN | 70 – 105 |
| Wet/Dry Variation | % | 5 – 15 |
| Acid soluble Sulfate, SO ₃ | % | 0.3 – 0.6 |
| Liquid Limit | % | n/a |
| Plastic Limit | % | n/a |
| Plasticity Index | - | Non Plastic |
| Modified Texas Triaxial | - | < 2.5 |
| Apparent Cohesion | kPa | > 55 |
| UCS (7 days acc.) | MPa | > 2.0 |
| Working Time | hours | 21 |

TECHNICAL AND CUSTOMER ENQUIRIES

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