



RSC Cement Data Sheet

- **Binary two part Magnesia soil cement.**
- **Applied to pavement material by Rainstorm specialised equipment.**
- **Binds tailings residue contaminates,**
- **Haul road and heavy equipment hard stand stabiliser.**

Rainstorm Cement (RSC) has been developed by Rainstorm WA as an alternative high performance binder with improved resistance to flexural strain and aggressive environments

Rainstorm Cement has been formulated to provide lower permeability of chlorides and aggressive materials when applied with well compacted densely graded materials.

Binary two part Magnesia soil cement.

Combined with soil has many superior properties compared to Portland cement. Bonds very well to a variety of organic and inorganic aggregates. Compatible with salt effected soils. Does not require wet curing, good resistance to abrasion. RSC has a high transverse with crushing strengths.

Controls Dust.

Binds mine tailings residue materials, to control dust.
RSC unsealed road surface provide a dust free pavement.

Binds Salt, Sand and Clay materials.

Unlike Portland cement Magnesium Oxychloride cement binds to organic and inorganic aggregates. This action prevents salt crystal growth limiting damage from salt crystal formations on bitumen seals.

Rainstorm purpose built application truck.

A specially designed purpose built RSC application truck is used to apply RSC to the road surface.



Applications

- **Roads**
 - Haul roads
 - Unsealed access roads.
 - Shoulder stabilization.
 - Dust control.
- **Airstrips**
- **Holding yards and Heavy Haulage depots**
- **Road Shoulders and Floodway Structures**

RSC has the capacity to be used as an alternative to conventional cementitious binders, which may require specialised equipment for application and finishing. It has the unique property of “*High Salt Resistance*”.
- **Foundry refractory specialised access ways and floors.**



Typical Properties of RAINSTORM CEMENT

Property	Conventional Requirement	RSC
Mortar Compressive Strengths (AS 2350.11) 3 day	Not Applicable	25 MPa
Mortar Compressive Strengths (AS 2350.11) 28 day	30 MPa	40 MPa
AS 1141.51 Unconfined Compressive Strength	> 1.5 MPa	3 MPa

All properties of RSC may be modified to suit individual site requirements. Above RSC properties based on data obtained from previous test results.

Durability and Strength

The ultimate strength, water resistance, chemical resistance and flexibility of RSC is directly related to the mixing, compaction and finishing processes. Rainstorm Pty Limited offers a technical advice service for individual applications.

Curing

RSC hardens by the continued reaction of the component materials. The purpose of curing is to minimise moisture transfer from the mortar or blended material and to enable the satisfactory reaction of the binder to proceed to give strength and durability properties.



HAUL ROADS D 9 Caterpillar Tracks



Treated with RSC



Untreated

Product Disclaimer

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