



ROCKSEAL

Water Barrier Coating for Sealing Rock or Water Proofing Dams

Description and Features

Rockseal is a styrene acrylic copolymer used as a sealant in underground mines to seal water vapour and non-permanent water from rock and therefore prevents weathering and disintegration of water sensitive rock types.

Uses

Rockseal is supplied as a ready-to-use liquid, which is applied directly onto a prepared rock surface and hardens rapidly into an effective water impermeable thin coating protecting the rock face from water. This feature is particularly useful where problems are encountered with water sensitive rock such as kimberlite, mudstone, etc. which are likely to degenerate in the presence of high water vapour or from being in contact with water.

Rockseal can be applied by almost any convenient means such as spraying, or brushed directly onto the rock. The rock should be cleaned to remove all excessive dust residues and loose material.

Special Features

- **Rockseal** bonds well onto almost any sound hard rock surface, and dries to a touch dry surface within 10 to 30 minutes depending on applied thickness and atmospheric conditions. Temperatures less than 8°C will retard film formation
- Correctly applied, **Rockseal** renders a continuous thin film of a tough plastic-like membrane that will prevent water reaching the rock surface
- **Rockseal** is also effective in sealing air from the rock and preventing deterioration caused by oxidation etc.
- Cementitious over coatings such as shotcrete bond exceptionally well to **Rockseal**, and improve the structural properties of the shotcrete due to increased bond strength to the rock substrate.
- **Rock Seal** can be over coated onto itself with excellent bond between layers.

ELASTICITY OF 150+ if correctly applied

Application

Surfaces must be clean and sound, **Rockseal** should be stirred in the original container and applied by spray, brush or any other preferred method to allow a thin coating of the product on the surface. **Rockseal** is sufficiently thin to allow penetration into irregular surface and fissures. A thin dusting coat is normally sufficient. In special circumstances, a second coat may be desirable to ensure full coverage. **Rockseal** is colour tinted for easy identification of full coverage. Colours can be changed to blue, green, red or even transparent, if so required. **Rockseal** may be applied to a damp surface but not to a water sheen or running water surface but not to a water immediately after use, hardened **Rockseal** is not water-soluble.

Coverage

Rockseal covers 0.350 litre/m² depending on surface. Allow additional factors for rock roughness and texture – a factor of 1.4 is often sufficient.

Physical Properties

Appearance	Colour Tinted
Solid content	47%
pH	7.5
Specific Gravity	1.02

Rockseal is non-hazardous and non-toxic to skin and eye contact – see Material Safety Data Sheet. Applicators must wear minimum PPE of overalls, face shield, plastic apron or suit, and PVC gloves.

Packaging

Rockseal is supplied in 25 litre plastic containers

Storage

- Store in cool conditions out of direct sunlight
- Protect from freezing
- Protect from temperatures above 40° C.
- Shelf life-six months if stored correctly.
- Store in closed containers
- Lumpy or skinned material should be discarded.