P.O. Box 1712
Glenvista
2058

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Specifications

Mineral Vermiculite (Raw)	• Mineral Mica's family, basically consist of silicates of aluminium, magnesium and iron.
Mineral Vermiculite (Expanded)	• Expanded vermiculite with thermic treatment with temperatures above 700 °C the mineral expands increasing volume of 15 to 20 times
Vermiculite (Category)	• General-Mineral
Identification Colour	• Bronze-Yellow
Streak	• Pale yellow
Refractive index	• Translucent
Lustre	• Vitreous
Mohs Scale hardness	• 1.5-2
Specific gravity	• 2.4-2.7
Crystal system	• Monoclinic
Crystal habit	• Clay, scaly, aggregate
Cleavage	• Perfect
Fracture	• Uneven
Pleochroism	• None
Chemical formula	• (MgFe,Al)3(Al,Si)4O10(OH)2·4H2O
Thermal insulation	• The expanded vermiculite insulations maintains its capacity from 200 "C and 1200 "C. Its thermal conductivity is of 0.053m Kcallhr. "C for an average temperature of 20 "C.Su calorffica capacity is very low (0.2). • The bright walls of the vermiculite mica flakes are a multitude of screens that reflect and disperse the heat energy transmitted by radiation, and make such the insulating material suitable for high temperatures.
Properties (Lightness)	• The bulk densities of expanded vermiculite ranging between 60 and 140 Kglm 3 as grain size
Stability	• Is insensitive to atmospheric agents Is inert.
Fire resistance	• Melting point 1370 "bac Softening 1.250 "bac stable at high temperatures

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Mixture Ratios

Correct proportions for Roof Screed	• 2 x 8kg bag medium vermiculite • 1 x 50kg bag Portland cement • Approx 40 l water • Topping (6:1) sand: cement (10-15mm thick)
Quantities required per cubic meter	• 15 x 8kg bags medium grade vermiculite • 7 x 50 kg bags Portland cement • Approx 280-300 l water
To calculate volume	• VOLUME = LENGTH X BREDTH X HEIGHT **V = L x B x H** Example..... **V= 20m (L) X 10m (B) x 50mm (H)** **V= 20m x 10m x 0.05m** **V= 10m³**
Properties of the screed	• Dry density 450 – 510 kg/m³ • Thermal Conductivity K = 0,120 w/m °C • Compressive Strength Typically 0.5 MPa