

# AURALITE

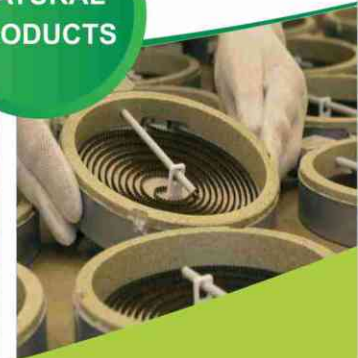
*Light Weight Filling Material*

## HI-COOL TILE

Light weight roof cool tiles



NATURAL  
PRODUCTS



COIMBATORE | CHENNAI | MADURAI

# About the **AURALITE**

*(Exfoliated Vermiculite)*

Auralite is a hydrated magnesium iron aluminum silicate mineral in the form of shiny flakes, which are usually golden brown to blackish in colour.

Auralite is a naturally occurring mineral that expands when heated. Expanded vermiculite has unique and versatile characteristics, it's light weight, provides energy saving when used as insulation, it is non combustible, highly absorbent, pH neutral, inert, non-reactive to all but very strong acids and compressible; these desirable characteristics allow vermiculite to be widely and beneficially used in applications below the items.

Auralite is one of the safest and most unique minerals in the world.



## **Auralite Application for Constructions**

### **Weathering Course**

**(Leight weight concrete)**

- \* Light Weight Auralite concrete for RCC roof and Asbestos roof its best thermal insulator. (It replaces laying of lime brick-mortor-jelly. There by reducing the dead load factor over the building by 60%)
- \* Nearly Slope to Drain
- \* No tampting, Vibrating and rodding
- \* Easy of application more than 20,000 sqft area per day
- \* Light weight of Normal concrete.
- \* No traffic should be permitted 24 hours after laying thereafter light sprinkling of water suggested for two days to attain a hard surface
- \* Floors of Computer Rooms, Cold Storage Rooms, Battery Rooms in steel plants and floor of Swimming Pools.
- \* Over corrugated AC rooms for thermal insulation against heat.
- \* Denser mix too can used on beds of furnaces/Chimneys for arresting distribution of heat.
- \* Sunken Filing, Portico Slabs
- \* Loose fill insulation (Light weight concrete for filling hollow & cavaity blocks)
- \* Vermiculite plaster (To improve plaster coverage wall and celling, Sound absorption)
- \* Loft, Cavity, Acoustic Insulation (Vermiculite is not suitable for insulation External cavity Wall)
- \* Fire production, Terrace Gardening





## Major Advantages of Auralite Concrete



- \* A temperature drop of 5°C to 7°C could be achieved depending on the thickness and tropical conditions.
- \* Low density of the product, reduce load factor of buildings
- \* Excellent insulation property keep inside of the treated area cool in summer and warm in winter
- \* Protects from noise pollution, protect concrete roof slabs from cracking due to thermal shocks.
- \* It is termite, moth, vermin and rodent-proof as well as non corrosive and non-conductor of electricity.
- \* It is well comparable to any thermal insulating products such as from concrete/cellular concrete/thermocole Insulation.
- \* Cuts electricity bill by reducing the strain on Air Conditioner
- \* Anti fungus, Anti-Termite, moth and vermin proof
- \* It is 30times more cooling than bricks and 40 times more effective than concrete in insulation value.

## Vermiculite Related Applications

- \* Horticultural, Agricultural, Fertilizer
- \* Packaging Material (Irregular Shapes, Glass product for Air freight section and shipping)
- \* Animal Feeds stuffs to preserve integrity of feed and promote the health of livestock
- \* Fire production to improve the safety of commercial and residential construction.
- \* Refractory and high temperature insulation (Hot topping in steel industry, Ceramic Industry)
- \* Friction lining (Automotive Industry)
- \* Special Coating (Cladding in railway station and tunnels)
- \* Chimney lining, furnaces, make waste combustion plant
- \* Petro chemical industry and Paint Industry
- \* Bio-Remediation and to clean contaminated soil and sites.
- \* Wall paper manufacturing

## Technical DATA

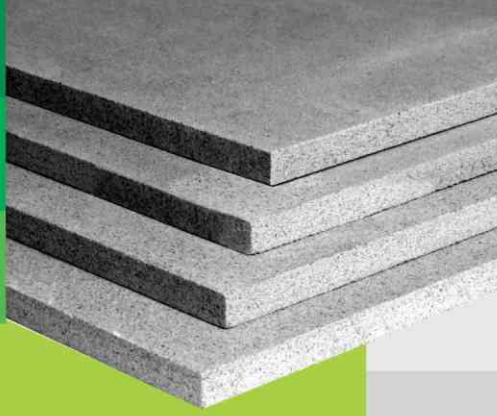
- \* Density : 150 kg – 200 Kg / cum
- \* Thermal Conductivity : 0.6 k.Cal/mt/Hr°C
- \* Compressive Strength : 4.0 - 4.5 N/mm<sup>2</sup>
- \* PH Value : 7.0
- \* Sintering Temperature : 1260°C
- \* Melting Point : 1330°C
- \* Specific Heat : 1.8 Kj / kg.K
- \* Specific gravity : 2.5



 Tiles for Roof

 Reduce Heat

 Provide Cool



## HI-COOL TILE

Light weight roof cool tiles

### WHY Hi-Cool TILES

1. Hi-Cool tiles are half of the weight compared to conventional clay tiles
2. Because of insulating material heat had reduced to keep the house cool
3. Reduces electricity bill
4. Reduces roof weight
5. No need of lime jelly and broken bricks before laying
6. Hi-Cool tiles can be fixed on RCC roof.
7. Light Weight with thermal insulation
8. Eco friendly
9. Nature material are used
10. Higher the Strength, with lower water absorption

### Introduction

Hi-Cool tiles are specially designed for Roof to reduce the heat and cool inside the house.

Hi-Cool tiles are made of natural insulating material like natural silica fibers and magnesium silica

Hi-Cool tiles are half of the weight when compared to conventional clay tiles, because of natural green insulating material usage, below the roof will be maintained as cool.

### Features

- ❖ Hi-Cool tiles in Roof, replacing lime, jelly terracing and conventional clay tiles.
- ❖ Hi-Cool tiles are Cost effective, reduce usage of AC and thus reduce CFC emission.
- ❖ It reduces power consumption in house and hence reduces electricity.
- ❖ Hi-Cool tiles are basically designed for light weight with high insulating property and good surface finish.
- ❖ Hi-Cool tiles are non-toxic non-flammable.

### Colours Available

Ash Grey

**DIMENSIONS:** 250 \* 250 \* 25 MM  $\pm$ 3

**TECHNICAL REFERENCE:** IS: 2690 – 1992 (PART 1 & 2)

#### PHYSICAL PROPERTIES

Unit Weight	=	1.80 to 2.00 kg
Water absorption	=	Not exceed 20%
Surface	=	Mat finish

#### MECHANICAL PROPERTIES

Flexural Strength = Not less than 1.5 N/mm<sup>2</sup>

**TEST RESULTS AS PER IS :** 2690-1992 (PART 1&2)

Flexural Strength	=	2.06 N/mm <sup>2</sup>
Water absorption	=	11.82%

## AURORA PAVERS

Manufacturers of all types of Paver Block & Tile

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