



METHRAS
CELLOCON
A Green Revolution For Future Buildings



**CELL O CON
THERMAL PROOF ROOF TILE
THERMAL PROOF ROOF MORTAR**

A TECHNOCRAT'S QUALITY PRODUCT



GERMAN TECHNOLOGY



SCADA QUALITY CONTROL



INNOVATIVE GREEN PRODUCTS



www.methrascellocon.com



CELL O CON THERMAL PROOF ROOF TILES (Cool Roof Tiles)

CELL O CON THERMAL PROOF ROOF TILES

CELL O CON Thermal Proof Roof Tiles (Cool Roof Tiles) are used in places where extreme hot climate prevails. They are mainly used in terrace and fireplaces. They are also called heat reflective tiles. They are made with special and premium raw materials so that they sit nicely above the concrete floor terrace and balconies.

The special materials reflect the heat waves from the sun thus preventing them from entering the rooms under the terrace. These heat resistant tiles are suitable for Commercial, Residential and Industrial projects. Moreover, they are easy to install, thus saving labour charges and precious time. Since the rooms will not be affected by the hot weather, Air conditioner will not consume more power to cool the room, thus saving power and in turn money.

CELL O CON Thermal Proof Roof Tiles are manufactured in standard sizes and custom sizes. They require almost no maintenance and last long. They are ideal for residential, commercial and industrial projects. They are manufactured under stringent process and quality control.

CELL O CON Thermal Proof Roof Tiles have been made with superior quality of white reflective insulation materials which help in reflecting maximum sunlight back to atmosphere.

The whiteness of Tile is also major reason for the reflection of sunlight therefore resulting in reduction of temperature inside the building by 10 - 15 degree without the use of cooling appliances and energy.



Tile Dimension

250 x 250mm x 15 & 20mm

300 x 300mm x 15 & 20mm

CELL O CON Thermal Proof Roof Tiles save energy and money while running a air conditioner. Tiles have high SRI (Solar reflective index). This means more heat is reflected back and ensures coolness inside the room underneath. Thermal proof tiles are waterproof and hence ideal for outdoor applications like terrace.

CELL O CON Thermal Proof Roof Tiles are anti-fungal, Eco-friendly.

CELL O CON Thermal Proof Roof Tiles are anti-skid tiles.

CELL O CON Thermal Proof Tiles should be laid with 5mm gap by using spacers for better grouting of joints using CELL O CON sealant.

CELL O CON Thermal Proof Tiles are available in multi colors base on the requirement.

CELL O CON COOL TILES TYPE 1 Full body white

CELL O CON Cool Tiles are specially manufactured by using the best quality natural minerals to withstand all climatic conditions. The Cool Tile is made up of 100% single bodied material to give the best results with high flexural strength and high heat reflective surface through out the year.

Colour	Full White
Size	250 mm x 250 mm (10"x10") & 300mm x300mm (12"x12")
Thickness	15mm & 20mm
Type	Full body White Minerals
Solar Reflective Index	95 (Appox)
Flexural Strength	>5 N/mm ²
Weight	>2 Kg
Water Absorption	5%
Warpage	0.10%

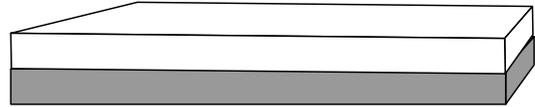
CELL O CON COOL TILES - TYPE 2 - 50% White & 50 % Concrete

CELL O CON Cool Tiles are specially manufactured by using the best quality natural minerals and concrete to withstand all climatic conditions. The Cool Tile is made up of double bodied materials to give the best result; 50 % best quality natural minerals and 50 % concrete mixture with best additive to give the best heat resistance.

Color	Top White and Bottom Grey
Size	250mm x 250mm (10"x10") 300mm x 300mm (12"x12")
Thickness	15mm & 20mm
Type	Top 50% White Minerals, Bottom 50% Concrete Base
Solar Reflective Index	94 (appox)
Flexural Strength	> 5 N/mm ²
Weight	> 2 Kg
Water Absorption	5%
Warpage	0.10%



TYPE 1 : Full bodied Tile - White



TYPE 2: 50% white & 50% Concrete bodied

SPECIFICATIONS : AS PER IS 4457

Straightness of sides	± 0.2
Deviation of thickness	± 5%
Deviation of length	± 0.6%
Rectangularity	+ 0.2%
surface flatness	± 0.3%
Surface quality	Min 90%
Water absorbing	<6.7%
Skid resistance	>0.4

Thermal Proof Roof Tiles - ADVANTAGES

Solar Reflective index (SRI) : 94 (Appox)

Provides thermal insulation with superior passive cooling technique reducing inside room temperature.

Reduces use of air conditioner; lessens emission Reduces power consumption; hence reduces electricity bill.

Eco friendly, Anti - skid Surface

Stain free

100% washable

Tile joint with spacers can be filled with CELL O CON Grout / Sealant.

CELL O CON Thermal Proof Tiles Thickness is 15mm to 20 mm.



CELL O CON THERMAL PROOF MORTAR

CELL O CON THERMAL PROOF MORTAR

CELL O CON Thermal Proof Mortar is prepared with a special technique, so that it acts as a bad conductor of heat and does not allow heat to pass through it. Hence, it reduces the indoor temperature and keep the building cool and it also strengthens and support tiles that are laid over it.

CELL O CON Thermal Proof Mortar is widely used in roof and floor screeds, giving effective way of improving thermal insulation. CELL O CON Thermal Proof Mortar gives excellent results in place of conventional mortars and plasters and the methods being adopted like insulation methods of perlite thermal insulation mortars, vermiculite thermal insulation mortar, expanded polystyrene insulation.

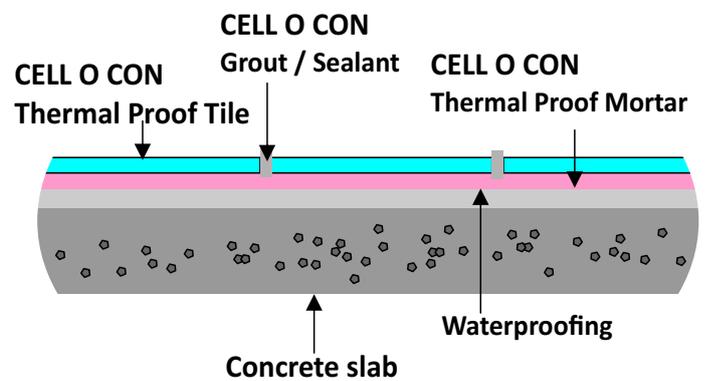
CELL O CON Thermal Proof Mortar is carefully proportioned blend of white cement, well-graded sand and selected assortment of fine metal and mineral stabilizers to provide a heat barrier in the building. When mixed with water.

CELL O CON Thermal Proof Mortar produces a high quality mortar with excellent handling and laying characteristics. CELL O CON Thermal Proof Mortar will provide enough insulation and heatproof that eliminates the need for additional insulation materials.

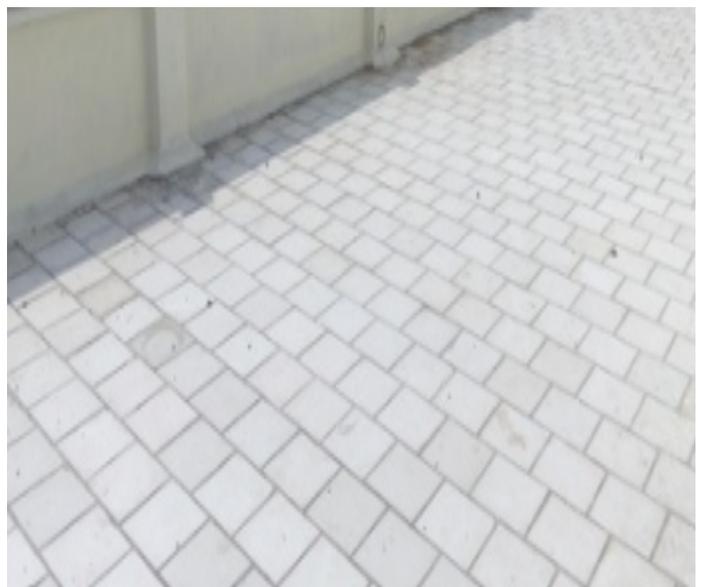
CELL O CON Thermal Proof Mortar is heat resistant, a specialized product with low thermal conductivity. This Mortar is Ideal for different surface finishing with heat proofing property strong and high load bearing surface.

Ease of application to roof and walls to provide tough, durable and flexible playing surface, less shrinkage and thus less prone to cracks.

Thermal Insulation on Concrete Slab



CELL O CON Thermal Proof Mortar is waterproof since high quality adhesives are added in the Mortar.



Disclaimer: The Specifications and properties given in the brochure are as per the standards given in BIS for THERMAL PROOF TILES & MORTAR. The test results are in conformation with the specifications as per BIS, at the time of the laboratory tests.