



1.24 XPERT FOAM CRETE 110

Light Weight Foaming Agent for Concrete

PRODUCT DESCRIPTION

XPERT FOAM CRETE 110 is rigid and light weight mineral foam. It is joint less, extremely effective, single layer insulating material. XPERT CRETE 110 is economical and long-life treatment. XPERT CRETE 110 is produced by mixing Natural minerals (in presence of a catalyst) with foaming agents to obtain honeycombs with in its mass for the required area. Natural minerals as well as air voids (air pockets) produced in-the layer, offers resistance to both heat and cold.

USE OF INSULATING MATERIAL

XPERT FOAM CRETE 110 is a perfect insulating material conserve energy required to control extreme weather effect in Buildings to reduce environmental effects on concrete construction in tropical area. XPERT FOAM CRETE 110 used for Void Filling, Roof Insulation, Bridge Abutment, Trench Reinstatement.

METHOD OF APPLICATION

XPERT FOAM CRETE 110 is laid directly on concrete roof Water Proofing is provided and covered with concrete screed (Avg. 2-3" thick) using steel mesh.

COMPARATIVE ANALYSIS

| PROPERTY | XPERT FOAM CRETE 110 | EX-PO (EPS-P-M) | REMARKS |
|---|---|---|---------------------|
| Economy | 4" Thick Layer is recommended | 2" Thick high Density 25 Kg/M3 is recommended | Ref. EPS Literature |
| Temperature Thermal Conductivity | At 60°C 0.015 Kcal/MH°C at 60° | At 10°C 0.027 | Ref. EPS Literature |
| Effect of chemical | No effect | Damaged by Acids Alkalis, petroleum Products | Ref. EPS Literature |
| Manufacture's (Acid Alkali, oil Petroleum Products) | | | |
| Waterproofing | Only once at top | Two Time Water Proofing Under earth & Top | Ref. EPS Literature |
| Manufacture's | Surface of the RCC slab | | |
| Load Bearing | Easy Walking. Ideal under Terrazzo Floors | Frail, Walking over is not advisable | Notable Practically |
| Bounding with roof slab | Single Layer binds itself with Roof Slab. | No. Bounding with roof slab, presence of joints | Notable Practically |
| Fire Risk | No Risk | Highly combustible | Notable Practically |
| Sound Insulation | Single Layer good | Poor, sound absorbent | Presence of joints |

ADVANTAGES

XPERT FOAM CRETE 110 is a complete insulator. It costs almost half of the cost of Polystyrene & PU.

- Create 25% of temperature difference from atmospheric temperature.
- Protects roof from temperature cracks and damages due to ultra-violet radiation.
- Remains state, in case of absorbing rain water because of its crystalline property.
- Has very high sound absorption and is effective sound insulator.
- Fills the uneven surfaces, Best Roof Slope.
- It ideal for Sound Proofing & Thermal Insulation.
- Is ideal for treatment of old roofs.

| PROPERTY | VALUE 2" THICK LAYER |
|---|---|
| Density | Depend on Cement (Gray or White) |
| Compressive strength | 110 Lbs. /Sq. Inch. |
| Thermal Conductivity (at 60°C K Value) | 0.015 Kcal/MH°C Extremely Low |
| Fire Rating | Highly fire resistant. 16-Hours |
| Ultra violet/infrared Radiation, reflection | About 75% |
| Load Bearing | Very High, easy walking over after Application. |
| Temperature Difference | Lowers about 7 - 8°C |
| Setting Time | It is very sturdy and rigid, walking over after 2 hours, further flooring |
| Sound absorbance | Process after 72 hours in summer. Very high 720 decibels |