

Properl Crete Flooring

Perlite Lightweight Concrete Insulation

Description	Perlite concrete aggregates combined with Portland cement and water to produce a lightweight concrete insulation layer used for roof decks, floor fills, and lightweight structural decks.1 It complies with ASTM C-332,group 1,BS EN 12667
Where to use	• Roof decks. • Floor fills. • Structural decks. • Insulation for steam and coolant pipes. • Oven Insulation and cooling chambers. • Interstitial floors in hospitals. • Lightweight formed-cast forms and blocks.
Advantages	• Extremely lightweight. • Superior thermal and acoustic insulation. • Adaptable. • Fire retardant. • Reduce construction costs. • Eco-friendly.
Properties	
Dry Density	1200 – 1800 Kg/m ²
Wet Density	1300 – 1900 Kg/m ²
Thermal Conductivity	0.039 W/m.k°
Compressive strength	190 - 220 Kg/cm ² (28 days)
Slump	7 - 16 cm
Drying time	7 Days
🚧 Noise Reduction Coefficient (NCR): 0.9	
Surface Preparation	• Surface should be sound, clean, and free from laitance, dirt, dust, and loose materials. • New concrete should be left for 28 days before use • Clean the concrete surface with steel brushes. • Wet the surface thoroughly for 1 hour before application.
Mixing	• Mixing equipment is the same used for sand/gravel concrete mix. • Add water to the mixer. • Add the material to the mixer mix until a slurry is formed. • Mix at top speed (100-150rpm) for 3-5 minutes. • Discharge the slurry and check the density. • Rotate the drum when discharging last of load. • Do not wash the drum between loads.
Application	• It can be applied by crane and bucket or by pumping • insulating lightweight concrete shall be placed well compacted to achieve • the required level and slopes • Insulating lightweight concrete thickness should not be less than 50 mm. • After placing, it should be worked out with wood floats and steel trowels to be smooth. • Water cure for 3 days.

Theoretical coverage	12 -18 Kg/m ² /cm thickness (according to density)
Packaging	15 Kg Sacks
Shelf life & Storage	One year in its sealed packs stored under proper conditions
Health and Safety	• Use gloves and a breathing mask when applying. • Apply forced ventilation in confined spaces. • Skin splashes to be removed with hand cleanser, soap, and water. • Eye splashes are to be removed with plenty of water. • If ingested seek medical advice
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble-free durable structures. PROKEM designs tailor-made products should there be a critical application that requires specific properties rather than our main range for our customer's satisfaction. PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current terms of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of these will be supplied on request. PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.