

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>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.</p> <p>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.</p> <p>PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current terms of sale & delivery.</p> <p>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.</p> <p>PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.</p>