

Proplaster AR

Barium Plaster Radiation shield

Description	It is a radiation shield plaster for brick, concrete floor, walls, and ceilings with a consistency of 2 mm. Pb equivalent It is (2 – 3 cm) thick for walls and (6 - 10 cm thick) for floors It complies with EN DIN 6812
Where to use	• X-ray, Radiology, Radiographic imaging rooms & dental X-Ray • Mammography • MRI or Radiofrequency rooms • Ultrasonography / Ultra Sound Rooms • Fluoroscopy Rooms • Emergency Rooms, Special Procedures, and Operating Rooms • Angiography room / Cardiac Catheterization Labs • A Computerized Tomography / C.T. Scanner rooms • Nuclear Power Stations • Gamma Knife Rooms • Linear Accelerators/ Radiation Therapy • Positron Emission Tomography / Pet Scanner room
Advantages	• Protection against X-rays • Smooth & solid surface • Paintable • Economic (60% less than lead) • Safe & Lifetime • Protection against radioisotopes
Properties	
Color	Grey
Sp. Gr.	1.4 ±0.2
Pot Life	1 Hour
Compressive strength 28 days	14 - 17 N/mm ²
Drying Time:	
• Initial	1 Day
• Final	7 Days
Radiation Transmission %	65% (186 - 1800 KV)
H.V.L.	4 ± 0.9 cm (Ra-226, Cs-137 & Co-60 gamma emitters)
Lead Equivalent	2 mm (186 KV)
Mass Attenuation Value	0.117 cm ² /gm
Surface Preparation	• The surfaces must be clean, and sound • Remove all dust, oils, loose particles impurities completely • Wet dry surfaces
Mixing	• Add (7 - 8 L water) to 25 Kg • Sack of material and mix thoroughly (400 rpm) to obtain a homogenous mix.
Application	• Apply the material on the walls, columns, and ceiling in layers not more than (15 mm thick) at one time with a trowel • Each layer must be wet floated while drying • Sockets must be blocked with lead • Floor ducts must be backed with lead strips • Leave to dry for 24 - 48 hours
Theoretical coverage	15 Kg /m ² / 20 mm thick

Packaging	25 Kg Sacks
Shelf Life & Storage	One year in its sealed packs stored under proper conditions
Health and Safety	• Use goggles, gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from the skin with hand cleaner or soap and water • Eye splashes are to be washed with plenty of water
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 structure. PROKEM designs tailor made products should there be 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 term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.