



## Seitz + Kerler GmbH + Co. KG

### SEILO Röbalith barium plaster

In many cases it is required to improve the radiation protection of existing walls. This increased radiation protection can often be achieved by means of a barite cement plaster containing Röbalith sand.

Röbalith sand consists of a specially conditioned barite having a grain size of 0 – 4 mm. The addition of cement as a bonding agent provides a scratch coat, whose thickness depends on the minimum lead equivalent and the tube voltage of the X-ray device. For this reason, we must know the relevant values to be able to process enquiries or orders with the required accuracy.

Shielding values	at 1000 kV	at 150 kV	kg/m <sup>2</sup>
at 1.0 cm coat thickness	0.8 mm Pb	0.7 mm Pb	30
at 1.5 cm coat thickness	1.2 mm Pb	1.0 mm Pb	45
at 2.0 cm coat thickness	1.6 mm Pb	1.3 mm Pb	60
at 2.5 cm coat thickness	2.0 mm Pb	1.5 mm Pb	75

**Mortar mixture:** for 1 m<sup>3</sup> finished mortar

for 1 bag (50 kg) Röbalith sand

Cement	270 kg	approx.	4,50 kg
Lime	80 kg	approx.	1,35 kg
Water	approx. 130 ltr.	approx.	2,15 ltr.
Barite grain 0 – 4 mm naturally humid	3.000 kg	approx.	50,00 kg

**Processing:** Approx. 8 parts by weight of Röbalith sand are mixed with 1 part by weight of cement/lime and stirred with water to obtain a mortar that is not too thin. Before starting the plasterwork, all the wall joints must be thoroughly filled with the plaster mortar. Any existing old plaster must be removed. **The plaster is applied in approx. 5 – 8 mm thick layers.** The max. plaster thickness of 2.0 – 2.5 cm should not be exceeded, if possible. In exceptional cases, the plaster may, of course, also be applied on both sides.

After this cement-bound scratch coat cured, a plaster skim coat may be applied. Plastered walls must be kept humid in order to prevent the formation of cracks. Artificial drying of the plaster is not permitted! Wall sockets have to be backed up by lead. Plaster coats must not be damaged. Barium plaster can be processed as normal lime cement plaster according to relevant regulations.

Unit size: 50 kg bags.

