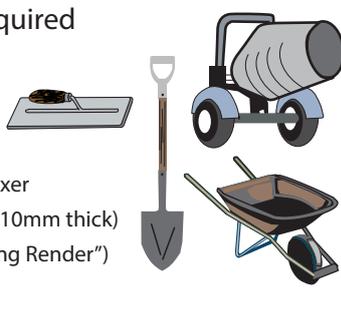




BASIC RENDERING

Tools & Materials Required

- Shovel for mixing
- Straight edge
- Plasterers steel float
- Wheelbarrow or cement mixer
- Timber for battens (approx 10mm thick)
- Render materials (see "Mixing Render")



1. Rendering basics

Cement based renders on both internal and external walls perform a number of functions. These include better waterproofing, improved fire rating and an improved appearance through the use of coloured or textured renders.

To get the best results it is important that the mix is suited to the background surface, that it is properly applied to the correct thickness in the appropriate number of coats and that attention is paid to curing.

2. Preparing the surface to be rendered

Before you start you need to ensure that the surface you are rendering is free from dirt, dust, oil, grease, paint, silicone or friable material. Smooth dense surfaces with low absorption rates like concrete or metal window frames should be prepared with a "dash coat" prior to application of the render.

A dash coat is simply a very strong mix of cement and water which is flicked over the wall or metal window frames creating a surface for the render to grip to. Allow the dash coat to dry for at least 24 hours before you start to apply the render.

Highly absorbant surfaces like sandstone will normally require soaking down to prevent water loss from the freshly applied render.

3. Mixing the render

Firstly you need to decide on the type of render finish you want. Using the chart below you can determine the correct mix ratios and roughly how much material you will require.

1m³ of render requires approximately 1.2m³ damp plastering sand

INTERNAL RENDERS	Mix Ratio (Volume)			Cement	Hylime
FLOATING	C	L	S	Bags per 100m² @ 10mm	
27.7 kg Plasterers Dark	1	0	6	8	0
20 kg Masonry Cement	1	0	5	14	0
20 kg Cockburn Grey type GP	1	1	7	10	4
GLASS FACED RENDER (DADO)	C	L	S	Bags per 100m² @ 10mm	
Base Coat					
27.7 kg Plasterers Dark	1	0	3	12	0
Finish Coat					
27.7 kg Plasterers Dark	1	0	1	19	0
FLOOR SCREEDING	C	L	S	Bags per 100m² @ 10mm	
20 kg Cockburn Grey type GP	1	0	4	16	0

EXTERNAL RENDERS	Mix Ratio (Volume)			Cement	Hylime
SAND FINISH BASE COAT (GREY)	C	L	S	Bags per 100m² @ 10mm	
27.7 kg Plasterers Dark	1	0	4	10	0
20 kg Cockburn Grey type GP	1	1	5	12	5
SAND FINISH TOP COAT	C	L	S	Bags per 100m² @ 5 mm	
20 kg Cockburn Creme/Grey Type GP	1	1	6	6	2
27.7 kg Plasterers Dark	1	0	4.5	5	0
BAG WASH	C	L	S	Bags per 100m² @ 5 mm	
20 kg Cockburn Creme type GP	1	1	5	6	2

All render mix ratios are for standard cored clay bricks. All mix ratios are by volume e.g. gauging bucket. Only use good quality plastering sand.

When mixing renders by hand, measure the quantities carefully using the same gauge vessel for all ingredients.

Renders should be mixed on a hard flat surface (concrete slab) or a board, in a cement mixer or wheelbarrow.

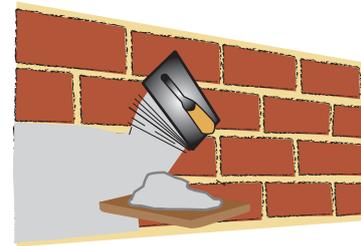
Mix up enough render that can be used up in 30 - 40 minutes. If oxides are to be added, then you must follow the manufacturers guidelines.

Firstly combine all the dry materials until the colour is uniform. Add only **small** quantities of water at a time while continually mixing the render. The render should be soft putty-like state and should stick to the float when you turn it up-side down. If the render is too wet, **do not use it** - discard and start again.

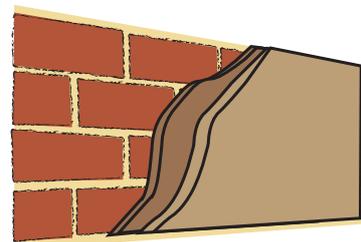
4. Applying the render

As a guide for thickness you can nail wooden battens of the correct thickness vertically to the wall which also gives you a clean edge to work to.

Using your steel float, start forcing the first layer of render on to the wall. Keep applying the render until you have reached the desired thickness. Once the thickness has been reached, use a straight edge such as a metal leveler and screed off the render using a sawing motion. Gently trowel smooth with a steel float.



If you are applying more than one coat, you will need to let each coat dry for at least 3 - 7 days. You will then need to scour each coat with a sharp object to provide a good surface for the second coat of render to bond to.



5. Finishing the render

A number of decorative finishing effects can be achieved using different finishing techniques on the final coat.

Trowel Finish - This is achieved by skimming the final coat using a wooden float to produce a smooth dense surface.

Bagged / Patterned Finish - This is achieved by rubbing a ball of damp hessian into the surface which produces patterns depending on the style of rubbing.

Sponge Finish - Mopping or sponging the hardened surface with a damp sponge achieves a sponge textured finish.

Care should be taken not to let water run down the wall spoiling the finish by washing the cement out of the render.

Roughcast Finish - Throwing and flicking the final coat onto the surface achieves a roughcast finish, no re-touching is carried out, the way it lands is how it looks.

Textured Finish - Textured finishes can be achieved by the addition of a coarser aggregate being added to the mix for the final coat.

Hot Tip:

On days where the temperature exceeds 27°C, it is recommended that you either render early in the morning or late afternoon. If the job needs to be done during the heat of the day, slightly dampen the brickwork with a fog spray before placing the render. This will ensure that the bricks do not suck the water out of the render mix before it has time to adhere to the brickwork.