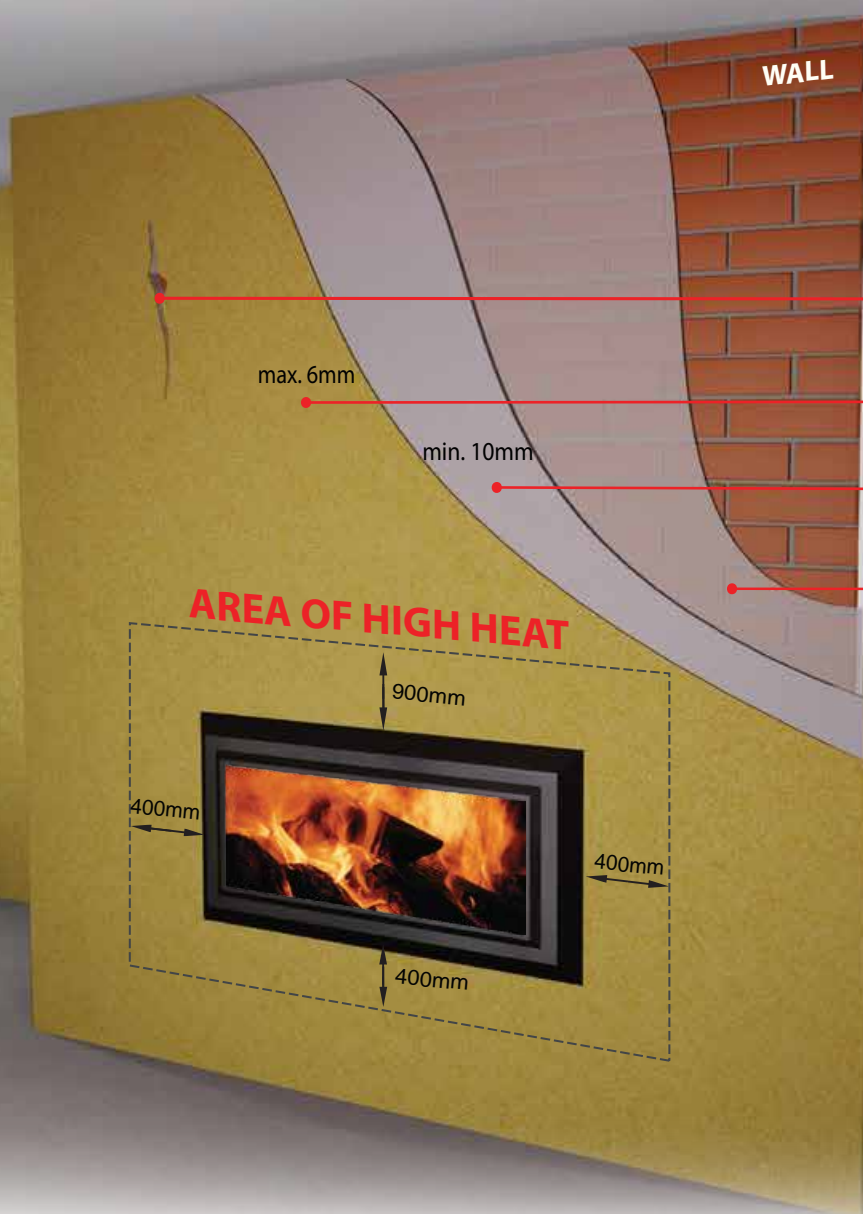


# VITCAS FIREPLACE RENDER & HEAT RESISTANT PLASTER



**VITCAS** Heat Resistant Filler

**VITCAS** Heat Resistant Plaster

**VITCAS** Fireplace Render

**VITCAS** PVA Adhesive Sealer



## VITCAS® FIREPLACE RENDER

Vitcas® Fireplace Render is a fine cement-like material which provides a protective rendering for vulnerable materials which can be damaged by exposure to heat. With a maximum temperature of 1400°C, it is more than adequate for these and other applications. Vitcas® Fireplace Render is a fully blended material with a maximum aggregate size of 5mm and is only to be mixed with water to a trowelling consistency. As a guide, the amount of water required is approx. 200 ml per kilo.

### Directions:

**New brickwork and surface:** allow the backing material to dry fully before Vitcas® Fireplace Render is applied. **Older surface:** In order to provide maximum keying for Fireplace Render, rake out any mortar joints to a depth of about 12mm and roughen the brick or stonework with a sharp tool, where necessary. Brush away any loose material. Use clean tools and mix Fireplace Render with cold tap water to a stiff trowelling consistency. Dampen the surface slightly and apply with a trowel or float, working from the base upwards to give maximum support. For a free standing stove in a recess, the recommended thickness is 12mm on the surrounding walls and the back. For an open fire, log basket etc the recommended thickness is 25mm and this can be applied in one layer or in several layers as required. For the face of a chimney breast around a cassette stove (sometimes called inset or hole-in-the-wall), Vitcas® Fireplace Render is used as a base coat for the Vitcas Heat Resistant Plaster finish coat. The thickness of this layer should be adjusted to suit the finishing layer of 3 – 6mm (1/8" - 1/4")

### Finishing:

The surface should be floated as smooth as possible if the intention is to paint this surface later. If using as a base coat for Vitcas® Heat Resistant Plaster then the surface should be left as a 'scratch coat' to provide a key for the plaster to adhere. For all applications the freshly applied material should be first covered with a plastic sheet overnight and thereafter allowed to dry naturally for 48 hours. Before applying Vitcas® Heat Resistant Plaster, the Fireplace Render should be left to dry for at least three days in temperatures above 18 degrees centigrade and for longer if moisture is still present as apparent by the colour of the material. If possible apply heat after day one ie light the fire or use another type of heater.

### COVERAGE:

20kg tub will cover approximately 0.40m<sup>2</sup> (4.3 ft<sup>2</sup>) at a thickness of 25mm (1")

### PRE-HEATING:

Pre-heating the render is necessary to dry out all the excess moisture which is retained within it. Failure to dry out this moisture before the render is subjected to high temperatures may result in the render failing and, in some severe cases, the build up of pressure could cause the render to shatter. For best results, pre-heat the render with a very hot electric fire or fan heater placed in the grate. Alternatively, light a paper and cardboard fire in the centre of the fireplace and try to keep the flames from touching the render. Maintain this pre-heat for a few hours, during which time a fire guard should be used. After pre-heating a conventional fire can be lit although a fire guard should still be used for the first 2 hours. Do not coat the Fireplace Render with any material until the pre-heat process and initial firing have been completed.

### STORAGE:

Keep any unused material dry and store in a cool dry place away from children and pets.



**FOR RENDERING BRICK, STONE, CONCRETE AND BREEZE BLOCK FIREPLACES**



# VITCAS® HEAT RESISTANT PLASTER

Heat Resistant Plaster is high temperature smooth finish render. Protection up to 650°C (1200°F) Vitcas® Heat Resistant Plaster is a replacement material for gypsum plaster where the temperatures are too high for gypsum plaster to stay on the wall. For use around the opening of cassette fireplaces (sometimes called hole in the wall fires) and adjacent to wood burning stoves and range cookers where the area of the wall is subjected to intense heat.

The procedure for mixing and applying Vitcas® Heat Resistant Plaster is not the same as for ordinary Gypsum Plaster.

## Preparation:

The plaster should be used in the areas subject to intense heat approx 3m (10 ft) around the fire opening. The plaster can only be applied onto Vitcas Fireplace Render or onto Vitcas High Temperature Plasterboards.

\*We recommend rendering and plastering the whole chimney breast with VITCAS® RENDER & PLASTER SYSTEM.

The maximum recommended thickness of the material is 6mm. If applying onto VITCAS® FIREPLACE RENDER it is important to ensure that the Vitcas® Fireplace Render is fully dried prior to applying Vitcas® Heat Resistant Plaster. The Vitcas® Fireplace Render should be left to dry for at least 3 days in temperatures above +20 degrees centigrade and for longer if moisture is still present as apparent by the colour of the material. If possible apply heat after day one ie light the fire or use another type of heater.

In both cases the area to be covered should be prepared by coating with undiluted Vitcas® PVA Adhesive Sealer. Plastering should commence when this PVA becomes tacky.

## Application.

The material should be mixed with cold tap water to a useable consistency with a plaster mixer / drill attachment. There should be no traces of ordinary Portland cement or gypsum plaster on the tools or in the mixing buckets. It is best to mix the plaster in the bucket in which it is supplied.

Take care not to mix the material too wet. As a guide the amount of water required is approximately 200 ml per kilo of plaster.

A thickness of approx 3-6mm should be applied. It is important that the plaster is applied evenly i.e. no feathered edges. The plaster should be first applied so that the surface is flat but not necessarily smooth. After 15 to 20 minutes the surface should be trowelled up smooth. The surface finish must be obtained during flotation with the trowel because the material cannot be sanded when dry due to the surface being dense and non-porous. Any minor cracks can be repaired using VITCAS® HEAT RESISTANT FILLER. It is possible to re-coat the material with PVA and reskim after the plaster has dried if a second coat is necessary for any reason. When dry the finished surface forms a very hard heat resistant surface that can be painted over as required. VITCAS® HEAT RESISTANT PLASTER must be allowed to air dry for at least 3 days before lighting fire.

## COLOUR:

The material will dry to a light grey colour.

## COVERAGE:

20kg bucket will cover approximately 2m<sup>2</sup> (20 ft<sup>2</sup>) at a thickness of 6mm (1/4")

## Storage:

Keep any unused material dry and store in a cool dry place away from children and pets.

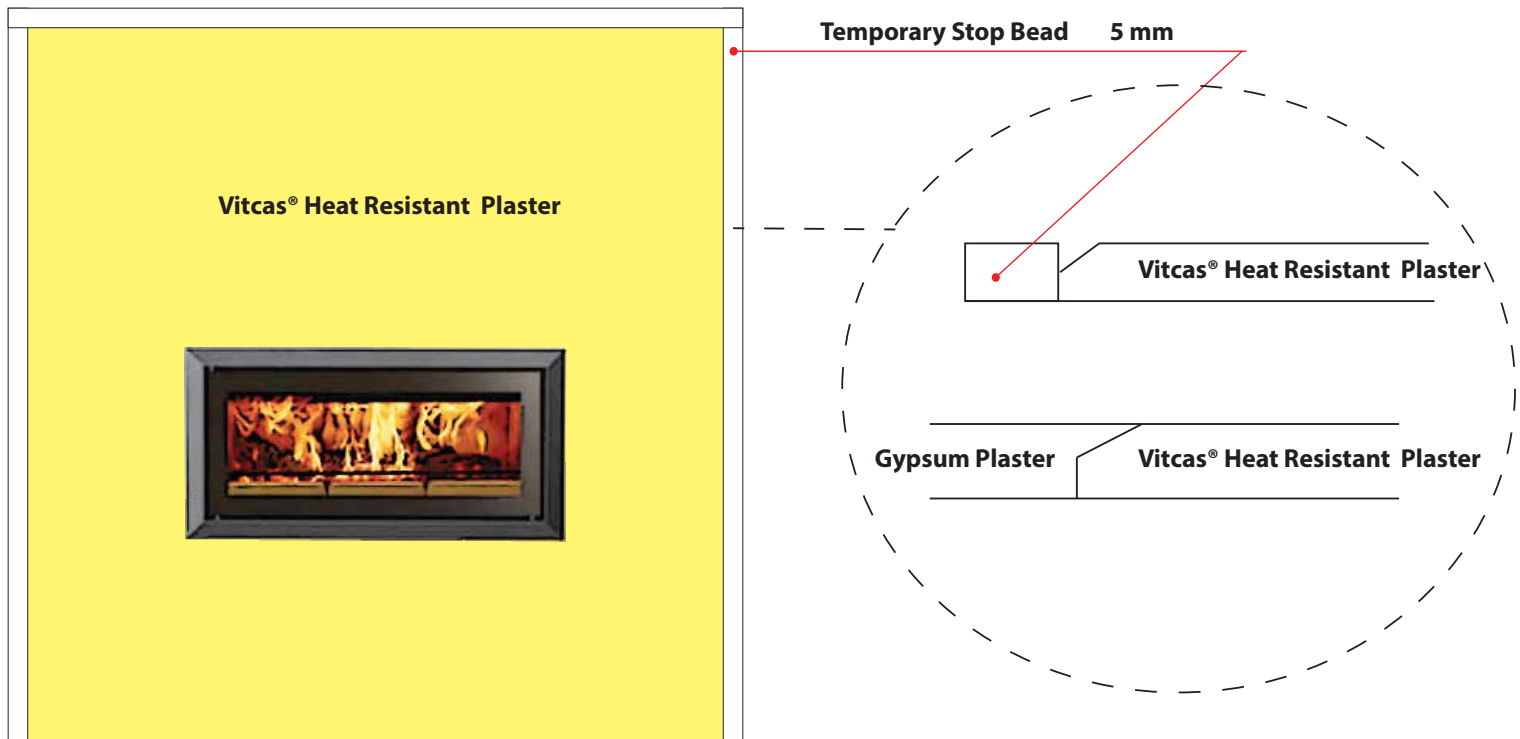
## Warning:

Do not breathe the dust. In case of contact with skin and eyes rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with water. Wear suitable gloves and eye face protection. Keep out of reach of children.



Application of **VITCAS® Heat Resistant Plaster** and method of joining to Gypsum Plaster.

A temporary stop bead can be used to define the area as shown. It is important that the mixing instructions are strictly adhered to (see label on bag). The area to be plastered should be first coated with a PVA adhesive. A thickness of approx 5mm should be applied. It is important that the plaster is applied evenly i.e. no featheredges. The surface finish must be obtained during flotation with the trowel. The material cannot be sanded when dry. Due to the surface being dense and non-porous when dry it is not suitable for finish skimming. Any minor cracks can be repaired with Vitcas Heat Resistant Filler.. When dry the finished surface forms a very hard heat resistant surface that can be painted over as required. Where the Heat Resistant Plaster meets the Gypsum plaster, a chamfered edge should be left on the Heat Resistant Plaster as shown in the diagram. The Heat Resistant Plaster should be allowed to dry, the stop bead should be removed and then the gypsum plaster can be feathered in over the chamfer previously created. In this way a vertical joint is avoided and the joint between the two materials is invisible.



**DRYING VITCAS® FIREPLACE RENDER**

Before applying Vitcas® Heat Resistant Plaster, the Fireplace Render should be left to dry for at least three days in temperatures above 18 degrees centigrade and for longer if moisture is still present as apparent by the colour of the material. If possible apply heat after day one ie light the fire or use another type of heater.

**DRYING VITCAS® HEAT RESISTANT PLASTER**

**VITCAS® HEAT RESISTANT PLASTER** must be allowed to air dry for at least 3 days before lighting fire.

Before starting make sure that all traces of old gypsum plaster are removed from the wall. Tools and mixing buckets should be clean and free from old plaster or old Portland cement. Use only cold tap water for mixing.



1. Coat the masonry with neat (undiluted) Vitcas PVA.



2. Mix Vitcas Fireplace Render with **cold** water.

RENDER	WATER
1 KG	200 MLS
10 KG	2 LITRES
20 KG	4 LITRES



3. Attach pieces of wood at each side of the chimney breast at the depth to be rendered.
4. Apply the render to the chimney breast.



5. Use a straight edge between the two side guides to strike off the material.
6. Trowel to a smooth finish and leave as a scratch coat.



**3 days  
+20°C**

**7.** Allow to dry for at least three days. Make sure that the render is absolutely dry (as judged by its colour) and by applying heat if necessary before proceeding to the next stage.



**8.** Coat the render with neat (undiluted PVA) and commence applying the Heat Resistant Plaster when the PVA is tacky.



PLASTER	WATER
1 KG	200 MLS
10 KG	2 LITRES
20 KG	4 LITRES



**9.** Mix the heat resistant plaster with the recommended amount of **cold** water using a plaster mixer.

**10.** The consistency should be such that the material will not drop off the trowel.



**11a.** Apply plaster to part of the area (about 1/3 to 1/2) making sure that this flat but not necessarily smooth. Do not trowel up at this stage. Check that the material is flat either with a straight edge or by striking off between guides as with the render.

**b.** After about 15 to 20 minutes go back and trowel this smooth. Continue to apply in this fashion by repeating these two steps for the rest of the area to be covered.



**3 days  
+20°C**

**12.** Leave at least 3 days before painting or using the appliance.