

## MASTIC REFRACTAIRE 452

### FUNCTIONALITY

#### Ready-to-use sealing and fixing mastic alkali silicate based with refractory fillers and without asbestos

- § Assembly of heating appliances, boiler components, fireplace inserts, stoves and cookers.
- § Assembly of firebricks in fireplace hearths and industrial furnaces, and crack repairs.
- § Assembly of fireplace flues and heat recovery systems.

### Technical Characteristics

Colour	Black
Appearance	Paste (does not run) For spatula or cartridge application.
Density*	2.06
pH*	12.7
Solid content	83 %
Brookfield viscosity* (RVT-E at 1 rpm)	3350 Pa.s
Maximum filler particle size	< 100µ
Application temperatures	Between +5 °C and +40 °C
Drying time	Recommended drying time of 48 hours with a progressive rise in temperature. It dries slowly in air (depends considerably on thickness, temperature and moisture content) and hardens with heat.
Withstands temperature of	1,300 °C Non-combustible (does not give off smoke)
Adhesion	Excellent on cast iron, cement, refractory bricks, stainless steel, steel. Adhesion is not optimum if the material has not been fired.

\*(Comment: data measured at 20 °C and 50% relative humidity.)

### Application

#### Preparation

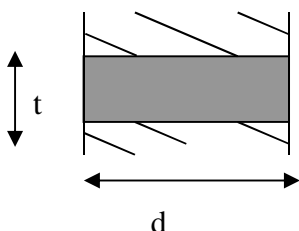
- § Masonry: clean with a wire brush and dust.
  - § Cast iron/metals: clean with abrasive, degrease with alcohol and wipe with a clean cloth.
- In every case, it is recommended to dampen porous surfaces before applying the product.

#### Instructions for use

- § Spread the mastic on the parts to be joined or fill the cracks and cavities to the maximum.
- § Depending on the application surface materials, leave to dry for about 48 hours before progressively raising the temperature, without bringing into contact with the flame.

#### Consumption

Depending on the seal dimensions and application, a cartridge of 310ml or around 600g covers a seal length (expressed in metres):



Thickness in mm (t)	Depth in mm (d)					
	5	8	10	20	100	150
1	62.0	38.7	31	15.5	3.1	2.0
2	31.0	19.3	15.5	7.7	1.5	1.0
3	20.6	12.9	10.3	5.1	1.0	0.6
4	15.5	9.6	7.7	3.8	0.7	0.5
5	12.4	7.7	6.2	3.1	0.6	0.4
6	10.3	6.4	5.1	2.5	0.5	0.3

### **Material cleaning**

§ The material can be cleaned with water (hot if possible).

### **Storage**

Store at a temperature of between +5°C and +30°C.

At 20°C, the product closed in its original packaging keeps for 30 months.

### **Comments**

In industrial use in drums: Use a pneumatic pumping with a shovel plate The pressure should be about 4 bars.

Continual storage at higher temperatures may, in certain cases, alter the end characteristics of the product.

The product must not be used if there is contact with water or high humidity, too high a thickness (> a few mm) and technical jointing (heavy components, subjected to bumps and vibrations for example).

The product is not suitable for jointing on glass or enamelled surfaces.

The mastic separates. In this case, eliminate excess solution and remix the product before use.

In the case of cartridges, it is essential to remove this excess fluid before applying pressure.

The safety datasheet is available online at [www.quickfds.com](http://www.quickfds.com). The information contained on the technical datasheet is provided in all good faith and results from measurements made in our laboratory. Given the number of materials, differences in quality and diversity of working methods, we recommend that users perform tests prior to application under actual conditions of use.

This document may be amended in keeping with product development and the state of our knowledge without prior notice and therefore it is recommended to check that you have the latest version before use.