

## DRYMIX Instruction to use



Refractory mixture is designed for masonry and brickwork lining of heating units: stoves, fireplaces, and fireboxes.

GIRtech DRYMIX is a refractory dry powder mixture which requires mixing with water.

To get high quality of ready mixture and joints, it is important drying and heating processes undergo in accordance with the prescribed procedure.

### Mortar preparing.

To prepare wet mortar mix dry powder with water in accordance with mortar type which is needed.

Mortar type	quantity of water on 1 lb of dry mixture	Recommended joints thickness, inches/mm
thick	3,5–4,0 fl.oz	0,1–0,2 in. /3–5mm
medium-thick	4,0–4,3 fl.oz	<0,08 in. /2mm
liquid	4,3–5,1 fl.oz	<0,08 in. /2mm

*\* the amount of water is a reference indicator and individual selection is allowed for mortar preparation*

**Masonry and brickwork lining of heating units.** Before constructing, mix the mortar. Wet the surface of the products (bricks) with water to improve adhesion. During the masonry, lay the mortar with a trowel, with joints of 0.1–0.15 inches thick. Before exposure to fire dry the masonry under the ambient temperature of 64 - 72 °F for 48h.

**Ignition.** The ignition shall be done gradually, so as not to cause a sharp temperature drop, which will lead to the masonry cracking. The refractory clay binder is included as a composition of mortar; therefore, the temperature shall be at least 2190 °F for the mortar to sinter completely and the joints to develop maximum strength. The minimum strength of the masonry shall be achieved under the temperature of 750–1110 °F.

### Attention!

- Refractory mortar does not develop strength during the drying process unlike cement and gypsum mortars do. It is needs firing;
- Do not make a fire until complete drying of the mortar;
- Avoid getting moisture on the joints during the drying process;
- Do not paint the masonry surface and mortar until their complete drying and firing;
- Do not plaster nor tile the heating unit until complete drying and firing.

**Note:** after drying, small cracks can appear in the joints, which is completely normal, as the clay material expands during the heat treatment. The appearance of the cracks has no negative affect on the integrity of the masonry. When constructing the heating unit outdoors, it is necessary to protect it by sheltering from the environmental influence of rain, snow and other types of precipitation.

**Safety.** Mixture is a non-toxic and safe product, containing natural components, therefore DRYMIX and products thereof can be used outside and inside the premises.

Do not inhale. The powder may irritate the respiratory tract.

In case of contact with eyes, flush them with some clean water

