

Kerathin Adhesive

Kerathin Adhesives are a series of ready-to-use air hardening refractory mortars based on ceramic fillers, organic and inorganic bonding agents. **Kerathin Adhesives** are used to anchor ceramic fiber materials to lightweight refractory brick, ribbed mesh wire, ceramic fiber modules, vacuum formed boards, ceramic fiber paper and ropes. **Kerathin Adhesives** can be fired immediately after drying, and are available in a variety of service temperatures to 1800°C (3272 °F).

ADHESIVE GRADE	1260	1600	1700	1800	1600 HA
Service Temperature					
(°C)	1260	1600	1700	1800	1600
(°F)	2300	2912	3092	3272	2912
Chemical Analysis					
Al ₂ O ₃ (%)	26	68	78	84	98
SiO ₂ (%)	67	30	21	16	2
Ceramic Bonding					
from (°C)	1000	1000	1300	1300	1300
from (°F)	1832	1832	2372	2372	2372
Wet Density					
(kg/m ³)	2000	1900	1900	1900	1900
(lb/ft ³)	125	119	119	119	119

▲ **Packaging:** 5 or 20 kg plastic pails
(11, 22, 44 lb)

▲ **Shelf life:** 1 year (dry and cool condition; keep from freezing)
Correct storage can extend the shelf life up to a few years.



Designed to Take the Heat

Kerathin Adhesive

Instructions for Use

Kerathin Adhesive is an adhesive mortar based on ceramic fillers, organic and inorganic bonding agents. It can be set by air-drying. For faster hardening, the adhesive can be subjected to a temperature marginally above 100°C (212°F). Initial ceramic bonding takes place at approximately 1000°C (1832°F).

1. The adhesive must be stirred well each time before use. Clean water* can be added to control the rheology to the required consistency. If not using entire container, dilute only the amount of **Kerathin Adhesive** needed in a separate container.
 2. Do not allow a skin to form on the adhesive before the two parts to be joined are brought together.
 3. The amount of adhesive used will depend on the absorption properties of the materials to be joined. Apply the adhesive as thin as possible. The normal amount is between 3 and 5 kg/m² (0.25 to 0.5 lb/ft²) of surface area.
 4. The surface of the materials to be joined must be free of dust and grease; if necessary, dampen with a little clean water* or **Kerathin Rigidizer**.
 5. After use, ensure that the containers are closed airtight. A thin film of water on the adhesive is of advantage.
 6. **Kerathin Adhesive** can be stored for up to one year in cool, frost-free conditions (undiluted).
- ▲ **Caution:** Upon first firing, some organics will be oxidized. Heating should occur in a well-ventilated area.
 - ▲ **Note:** When adding water, distilled or deionized should be used for **Kerathin Adhesive 1600, 1700, 1800** and **1600 HA** in order to keep impurities (water hardness) out of the joint which would increase the thermal shrinkage.
 - ▲ **Shelf life:** 1 year (dry and cool condition; keep from freezing)
Correct storage can extend the shelf life up to a few years.

APPLICATIONS:

Kerathin Adhesives can be used to anchor ceramic fiber felt, mat or blanket onto rib mesh, lightweight refractory bricks, fire resistant bricks and ceramic fiber modules; and for joining ceramic fiber boards and moldings, ceramic fiber paper and cords.