

HTAL · 1600

High Temperature Ceramic Glue

Single grade — high-alumina air-setting refractory cement for service to 1,700 °C

PAGE 38
FAMILY 03 / 06

Wedge HTAL1600 is high-alumina air-setting refractory cement used for bricklaying with thin joints, air & gas joints and strong joints. The fibre product can be shaped or moulded into refractory bricks at any density — useful for quick repair and monolithic linings in furnaces, reactors, kilns and investment-casting moulds.

SERVICE TEMPERATURE 1,600 – 1,700 °C	DENSITY 1,800 kg/m³	SHRINKAGE < 3 %
---	------------------------	--------------------

FEATURES & ADVANTAGES

- High-alumina formulation for extreme service
- Air-setting — no heat needed for cure
- Mouldable into bricks or as monolithic lining
- Strong joint bonds with thin film
- Initial set 1–2 hours; final set 4–6 hours
- Compatible with refractory fibre boards and ropes

APPLICATIONS

- Refractory brick laying — thin and strong joints
- Air and gas joint sealing
- Furnace and reactor monolithic linings
- Investment-casting mould bonding
- Kiln rebuild and quick repair
- Gas and steam turbine insulation jointing

TECHNICAL PROPERTIES

Property	Value
Service temperature °C	1,600 – 1,700
Density kg/m³	1,800
Shrinkage %	< 3
Al ₂ O ₃ %	32
SiO ₂ %	52
Fe ₂ O ₃ %	0.8
Initial setting hours	1–2
Final setting hours	4–6



High Temperature Glue & Adhesives

Two grades — HTAL1000 WK 84 (paste) · WK 84/16 (fluid) — inorganic asbestos-free glue

Wedge HTAL1000 high-temperature glue is developed for economical processing of insulation materials and lightweight construction systems. Inorganic, asbestos-free and incombustible — adheres to almost all foundations. Two consistencies (pasty and fluid) for application by trowel or roller. Service to 1,000 °C.

SERVICE TEMPERATURE 1,000 °C continuous	SETTING TIME 1 – 8 hours	SHELF LIFE 6 months (frost-free)
---	--	--

FEATURES & ADVANTAGES

- Ready-to-use, no mixing required
- High permanent temperature resistance to 1,000 °C
- Quick bonding; high adhesion strength
- Inorganic and asbestos-free
- Incombustible, does not generate smoke
- High pH — does not damage steel substrates

APPLICATIONS

- Bonding low-density Calcium Silicate boards
- High-density Calcium Silicate board bonding
- Microporous insulation bonding
- Insulation on steel substrates
- Ceramic fibre and fireproof stones
- Perlite board bonding

TECHNICAL PROPERTIES · 2 GRADES

Property	HTAL1000 WK 84	HTAL1000 WK 84/16
Product	High-temperature glue	High-temperature glue
Classification temperature	1,000 °C	1,000 °C
Colour	Grey	Grey
Consistency	Pasty	Fluid
Processing temperature	5–40 °C	5–40 °C
Setting after application	8 h	1 h
Hardening	24 h	8 h
Full hardening	1 week	1 week
Storage	Frost-free, 6 months	Frost-free, 6 months
Packaging	7.5 / 15 kg bucket	15–20 kg bucket

— CLOSE

Specify Wedge.

Request a sample, an engineering review, or a heat-loss calculation. A Wedge engineer will respond within 48 hours.

HEADQUARTERS

Delhi NCR

Galleria Tower, 6th Floor
DLF Phase 4 · Gurugram 122002
Haryana, India

SALES

Commercial

info@wedge-india.com
+91 9717506848
M–F · 09:00–18:00 IST

ENGINEERING

Technical

info@wedge-india.com
Heat-loss · specification
Drawing review · audits

REGIONAL

Network

Dubai · Singapore · Houston
Rotterdam · Shanghai
www.wedge-india.com



Wedge India

info@wedge-india.com | www.wedgeinsulation.com

[Request a Quote / Consultation](#)

