



CUMI

**REFRACTORIES FOR
CEMENT INDUSTRY**

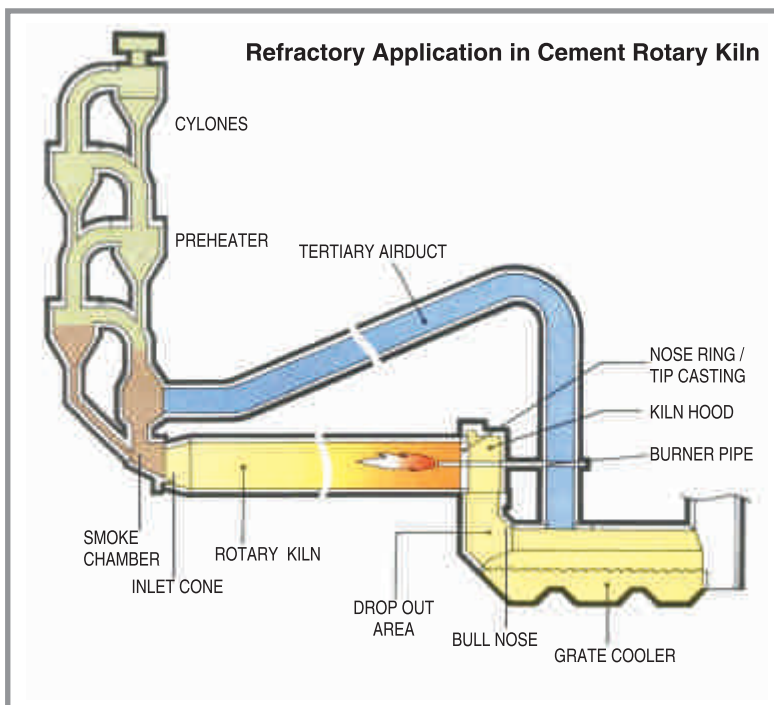
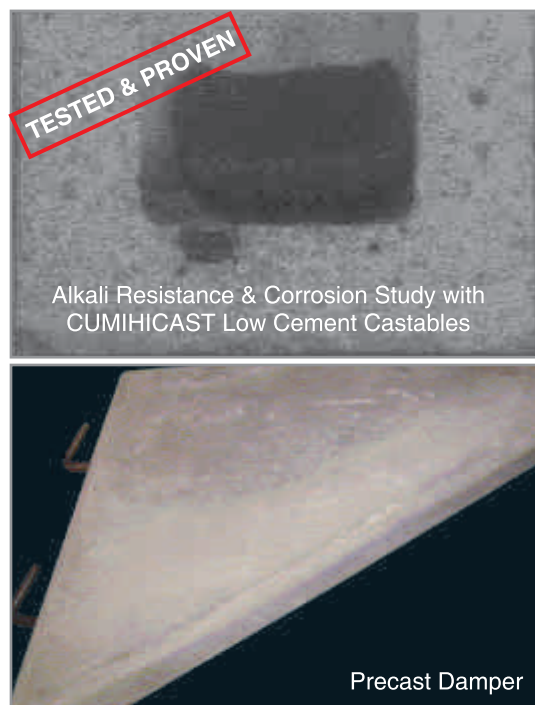


CARBORUNDUM UNIVERSAL LIMITED
SUPER REFRACTORIES

Application of Refractories in Cement Industry

With the advent of larger, more energy efficient cement plants, the rotary kiln and allied machinery are required to withstand longer periods of continuous operation. This requires different types of refractories that must suit the operating conditions in the different zones, in order to achieve balanced service life for the entire kiln.

CUMI has a variety of products to meet the requirements of cement plants. CUMI also has the ability and experience to offer all technical services related to design and installation of refractories.



APPLICATION AREA	CRITICAL APPLICATION CONDITION	RECOMMENDED PRODUCT
Cyclone	High turbulence High erosion in roof and side walls	CUMICRETE CK14, CUMIHICAST SUPER
Preheater	Flash firing High localised temperature High abrasion	CUMICRETE CK14, CUMIHICAST SUPER, CUMICRETE M70
Ducts & Conical sections	High abrasion & erosion	CUMIHICAST SUPER CUMIHICAST 70AR, CUMIHICAST 90AR, CUMICAST EF 804
Kiln Hood	High abrasion	CUMIHICAST EXTRA, CUMIHICAST SUPER
Tertiary Air Duct Damper	High abrasion & erosion	CUMIHICAST 70AR
Smoke Chamber	High abrasion & erosion Attack by alkalies from limestone and bauxite	CUMIHICAST 30 SiC, CUMIHICAST 33 SiC
Inlet Cone	High abrasion & erosion	CUMICRETE CK14, CUMIHICAST EXTRA, CUMIHICAST SUPER
Nose Ring / Tip Casting	Severe abrasion & erosion Impact of clinker Coating	CUMIHICAST 33 SiC, CUMIHICAST 90, CUMIHICAST 60A, CUMIHICAST EXTRA
Burner Pipe	High radiation High Impact loading High expansion	CUMIHICAST 33 SiC, CUMIHICAST 60A, CUMICAST EF 804
Drop out area	High abrasion Thermal shock	CUMIHICAST EXTRA
Bull Nose	High abrasion Thermal shock	CUMIHICAST 60A, CUMIHICAST EXTRA
Grate Cooler	Impact loading Thermal spalling	CUMIHICAST EXTRA, CUMIHICAST SUPER



Headquartered in Chennai, the Rs. 15,646 crores (USD 3 billion) Murugappa Group is one of India's leading business conglomerates. Market leaders in diverse areas of business including Engineering, Abrasives, Finance, General Insurance, Cycles, Sugar, Farm Inputs, Fertilizers, Plantations, Bio-products and Nutraceuticals, its 29 companies have manufacturing facilities spread across 13 states in India.

The organization fosters an environment of professionalism and has a workforce of over 32,000 employees. The Group has forged strong joint venture alliances with leading international companies like DBS Bank, Mitsui Sumitomo, Cargill, Foskor and Groupe Chimique Tunisien, and has consolidated its status as one of the fastest growing diversified business houses in India.



CUMI is one of the flagship companies of the Murugappa Group. The company pioneered the manufacture of Abrasives and Super Refractories in India and has made forays into other areas of material science such as Industrial Ceramics, Ceramic Fibre, etc.

CUMI is the largest Abrasives manufacturer in India and one of the largest producers of Silicon Carbide and Bonded Abrasives in the World.

The Company has major manufacturing units in India, Russia, China and South Africa and has operations in nine countries including Australia, Canada, Middle East, US and Thailand.



Quality Management System Certified



Making Materials Work for Man



CUMIs Worldwide Network At Your Service

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