



Modern monolithic refractories provide installation versatility and performance characteristics not typically achievable with brick construction. Their design leaves no joints for gas or chemical penetration, and they can be installed in a variety of ways. Choosing the right product requires knowledge of the products and the service conditions they will encounter. Since refractory failure can lead to outages affecting revenues of hundreds of thousands of dollars per day, the choice of materials should never be based on price alone, but on expected performance.

Harbison-Walker ADTECH products contain a non-metallic fiber that aids in the removal of water during dry-out. Brands that include PLUS in the product name also contain non-metallic fibers and have passed a very severe spalling test indicating that under certain conditions, they can be heated more quickly. Because each installation is unique, no one dry out schedule can be advised to fit all uses. Consult your installation representative for specific guidance.

The application table below lists materials commonly used in cement and lime plants. Your Harbison-Walker sales representative can make recommendations based on your specific needs.

MONOLITHIC REFRACTORIES

APPLICATION	GUN MIXES	PLASTIC	CASTABLE
Preheater/Precalciner Vessels	VERSAGUN 60 ADTECH VERSAGUN 60Z ADTECH	PLASTECH 70P GREENGUN-60 PLUS GREENGUN-50 P PLUS	SHOT-TECH 60 SHOT-TECH 60Z SHOT-TECH 55 AR VERSAFLOW 60 PLUS
Feed Shelf/Riser	ON-LINE THOR AZS G VERSAGUN 60Z ADTECH		THOR AZSP ADTECH THOR AZS-PT ADTECH THOR 60 ADTECH
Tail Ring			NARCON 65 CASTABLE VERSAFLOW 60 PLUS
Nose Ring			THOR AZS-NR ADTECH NARCON 65 CASTABLE ULTRA-GREEN SR
Firing Hood	VERSAGUN 60Z ADTECH VERSAGUN 60 ADTECH VERSAGUN 50 ADTECH	GREENGUN-60 PLUS PLASTECH 70P	SHOT-TECH 60Z SHOT-TECH 60 VERSAFLOW 60 PLUS
Cooler Bullnose	VERSAGUN 60Z ADTECH	ECLIPSE-60 P ADTECH CORAL PLASTIC 28-82	NARCON 65 CASTABLE VERSAFLOW 60 PLUS
Cooler Walls/Roof	VERSAGUN 60Z ADTECH VERSAGUN 60 ADTECH ON-LINE 60 G AR	PLASTECH 85P PLASTECH 70P	SHOT-TECH 55 AR SHOT-TECH 60 VERSAFLOW 60 PLUS
Cooler Curbs			ULTRA-GREEN 60 PLUS VERSAFLOW 80 C PLUS VERSAFLOW 60 PLUS