

GRAYBOND™
A GRAYMONT™ PRODUCT

**LIKE CEMENT,
ONLY BETTER**



A new type of binder for structural applications.

GRAYBOND™ is a new product line of engineered and customizable calcium-based binder technologies produced by Graymont, one of the world's largest lime suppliers.

- ✓ Ready-Mix Concrete
- ✓ Soil Stabilization
- ✓ Mine Backfill
- ✓ Precast Concrete

THE GRAYBOND™ ADVANTAGE

Reduce dependence on traditional SCMs

From waste-based to purpose-built. Formulated from local sources of lime, limestone, and pozzolans: GRAYBOND™ provides long-term supply stability against fly ash or ground steel-slag.

Maintain or exceed performance

GRAYBOND™ binders are formulated to meet the strength and durability requirements of the project at hand. It is so much more than just a filler.

Reduce emissions without disrupting process

Significantly lower your GHG footprint and maintain a familiar chemical profile for ease of integration from a technical and regulatory standpoint.

THE GRAYBOND™ PROCESS

Ready to you try GRAYBOND™ in an upcoming project? Here's how we get started:



1. Learn

Analyze the existing binder(s) and host materials at our state-of-the-art lab to formulate the proper blends.



2. Develop

Test the formulated blends in-house to qualify performance against the occupant binder(s).



3. Deploy

Validate GRAYBOND™ performance with third-party testing move to pilot trial, and confirm logistics.



GRAYBOND™ IN ACTION

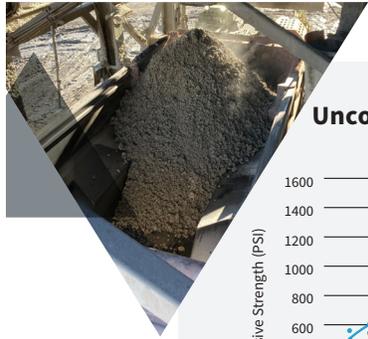
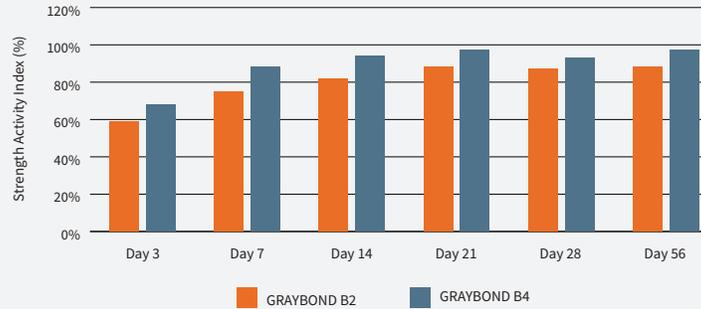
Concrete Slabs

Indian Creek, MT | 2024

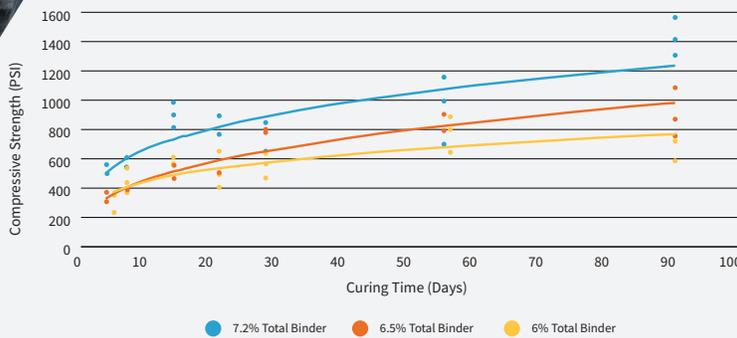
Two unique formulations of GRAYBOND™ replaced 25% of cement in concrete slabs at our Indian Creek lime plant. Poured in September 2024, the concrete continues to withstand the elements, including: salt, freeze-thaw, and heavy equipment traffic.



Strength Activity Index of GRAYBOND™ Formulations vs. Limestone Cement



Unconfined Compressive Strength of Binder Blend in CRF



Cemented Rock-Fill (CRF)

Western USA | 2022

In this CRF pilot trial, GRAYBOND™ met strength targets at 35% replacement of cement using 6%, 6.5% and 7.2% total binder. With a similar chemical assay to Fly Ash, this formula was easily integrated into the existing permitting for the mining site.

Soil Stabilization

Coalville, UT | 2024

GRAYBOND™ was tested against cement and quicklime in the treatment of a 'clayey sand' soil, dosed at 4% binder by weight of solids. This blend exhibits superior performance to cement.

Unconfined Compressive Strength of GRAYBOND™ in Soil Stabilization

MIXES	7-DAY (AVG. PSI)	28-DAY (AVG. PSI)
Untreated-Control	211	355
4% Cement	447	594
4% GRAYBOND™	614	805



TRY GRAYBOND™ ON YOUR NEXT PROJECT

Email: GRAYBOND@graymont.com
graybond.com