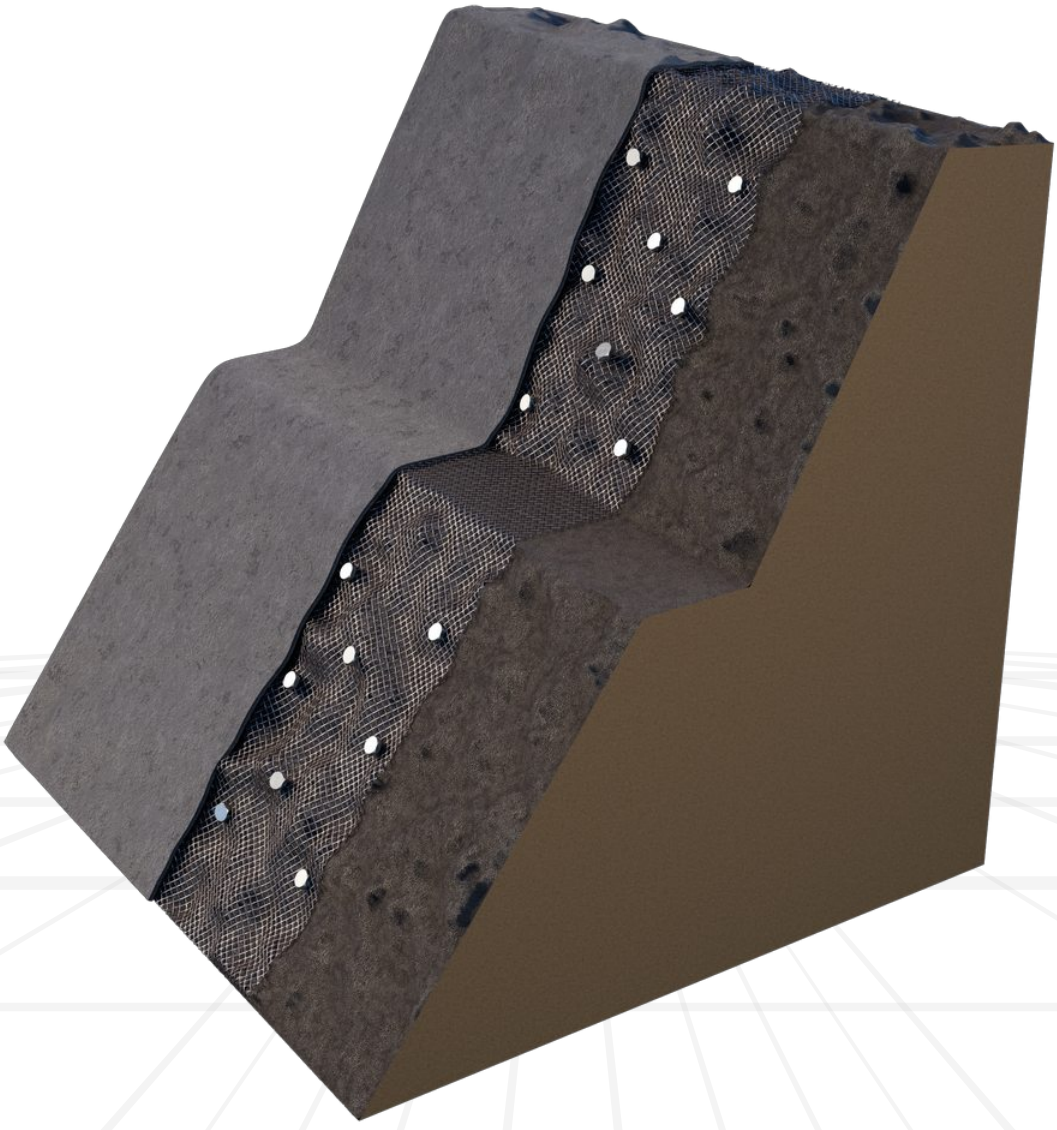
CONSTRUCK CEMROCK SLOPE WRAP BASIC

Wire Mesh Drapery with Erosion-Proof Rock Slope Facing



CST-CRWB-BRO-00013
www.construck.me

CONSTRUCK SYSTEMS & TECHNOLOGY
Research and Development | Design | Manufacturing | Geotechnics

The first drapery that controls rocks and rain

Traditional wire-mesh draperies contain falling rock but leave the face exposed to rainfall erosion. CemRockWrap Basic combines double-twist wire mesh against the rock, perimeter cables and rock bolts with an outer CemWrap 20 GCCM facing. The mesh provides containment and load sharing to the anchors and perimeter cables; the outer GCCM shields the surface from rainfall and runoff. Connections and edge details follow the project design.

Where it is used

- **Weathered rock slopes** with raveling blocks where drapery is appropriate and **global stability is adequate**.
- Road/rail cuts, portal approaches, wadi margins, coastal corridors with **high UV** and **salt spray**.





What problems it solves

- Rock ravel and block shedding onto the carriageway.
- Rain-induced rilling/erosion behind conventional drapes.
- Shotcrete cracking and corrosion on shallow rock slopes.
- Program delays from heavy formwork/shotcrete logistics.

What makes ConstruckSlope CemRockWrap Basic different

Two protections in one

CemWrap™ 20 (strength-graded GCCM with basalt UV outer & internal biaxial geogrid) + double-twist mesh (self-locking, non-ravel).

Pressure-friendly

the flexible CemWrap™ layer adapts to micro-movements and sheds runoff without cracking—unlike rigid shotcrete skins.

Corrosion-smart

no rebar; mesh supplied in Zn-Al (optionally polymer-coated) with stainless hardware options for marine sites.

System, not a pile of parts

delivered as a SPaaP kit—CemWrap™, anchors, mesh, perimeter cables, screed locks, fixings, and details that are all designed to work together.

System, Components & Benefits



Construck CemWrap 20



Double-Twist Wire Mesh Drapery



Rock bolts (2–3 m) with base plates & nuts



Wire Rope 8 mm



Fixing & joint accessories

Benefits at a glance

Dual function

erosion armor + rock containment.

Flexible & tolerant

adapts to rock roughness and small movements—no brittle cracking.

UV/marine ready

basalt outer on CemWrap; coated mesh & stainless options.

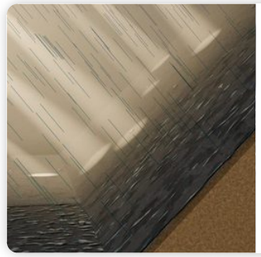
Faster & cleaner

than shotcrete; minimal heavy plant near traffic.

Low life-cycle cost

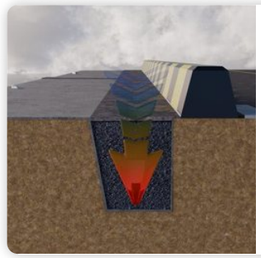
easy patching of local damage; mesh repairs are simple lacing jobs.

More than just Erosion Control - A SPaaP Specialty, Fully Loaded with Engineering Features



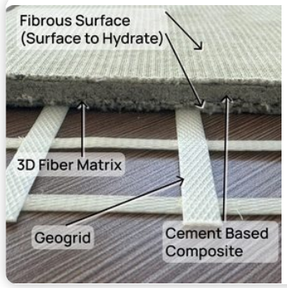
UV & Erosion Protection

The CemWrap's hardened cementitious shell acts as a protective barrier against UV exposure and rainfall, shielding the slope from surface erosion, cracking, and long-term degradation—even under harsh environmental conditions.



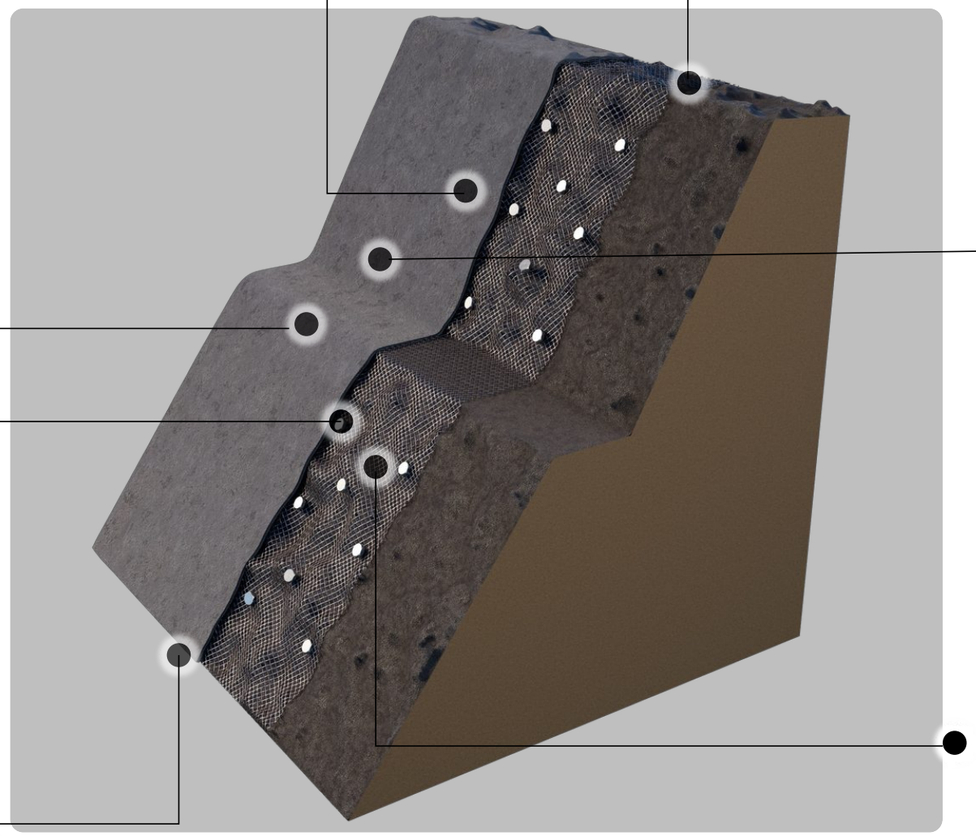
Secure Top Anchor

Located at the slope crest, the top anchor trench secures CemWrap firmly in the stable topsoil. It prevents sliding, uplift, and entry of surface runoff—ensuring the system stays fixed from the top down.



Construck CemWrap

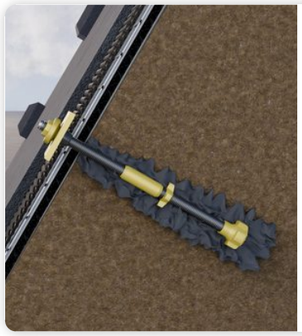
CemWrap combines a cement-filled fabric (GCCM) with an integrated geogrid to deliver efficient, reinforced erosion control. The GCCM hardens with water to form a thin, durable, and weather-resistant concrete layer, while the geogrid stabilizes the soil beneath —improving load distribution and enhancing overall slope performance.





CemWrap Joint (Overlap Zone)

Where two CemWrap panels meet, they are overlapped and mechanically fastened or sealed, creating a reinforced joint that prevents water ingress, lifting, or separation. The geogrid spans beneath, maintaining load transfer and full-surface bonding.



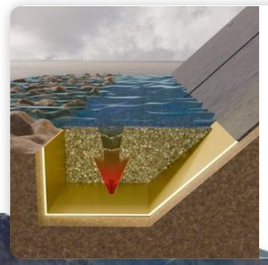
Deep Stability with Rock Bolts and Anchors

Rock bolts and anchors form the structural backbone of our anchored systems—transferring loads deep into stable ground to counteract slope movement. Each system is engineered for site-specific forces, ensuring long-term slope stability, resistance to deep-seated failure, and enhanced safety in challenging geologies.



Corrosion-smart Tensioned Mesh Containment

High-tension wire mesh and cables supplied in Zn-Al (optionally polymer-coated) with stainless hardware options for marine sites hold loose rock and fractured surfaces in place, distributing stress across the slope face and increasing overall containment capacity.



Bottom Anchor and Scour protection

No part of the CemRockWrap Basic is left without a proper termination. This includes the footing of the slope system that is anchored down and held in place by the weight of the concrete and placed well below the water flow level.



Performance, SPaaP & Spec Snapshot

How the hybrid system changes rockface management

Containment + Hydrology

mesh **catches/contains** ravel; CemWrap **stops rainfall erosion** and shields the face—reducing debris load and ditch maintenance.

Crack-free philosophy

unlike shotcrete, the flexible composite handles micro-movements and temperature cycles without brittle fractures or corrosion triggers.

Straight-from-factory quality

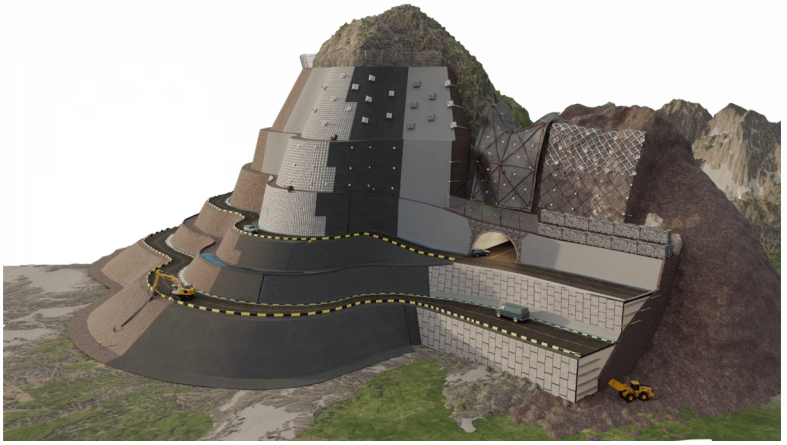
matched materials and accessories; simple, auditable QA.

SPaaP® — Slope Protection as a Product benefits

One kit, one crew, one warranty path—no finger-pointing between trades.	**Pre-performance-tested** components streamline approval and submittals.	Faster programs, fewer closures, safer work near live traffic.

Advantages

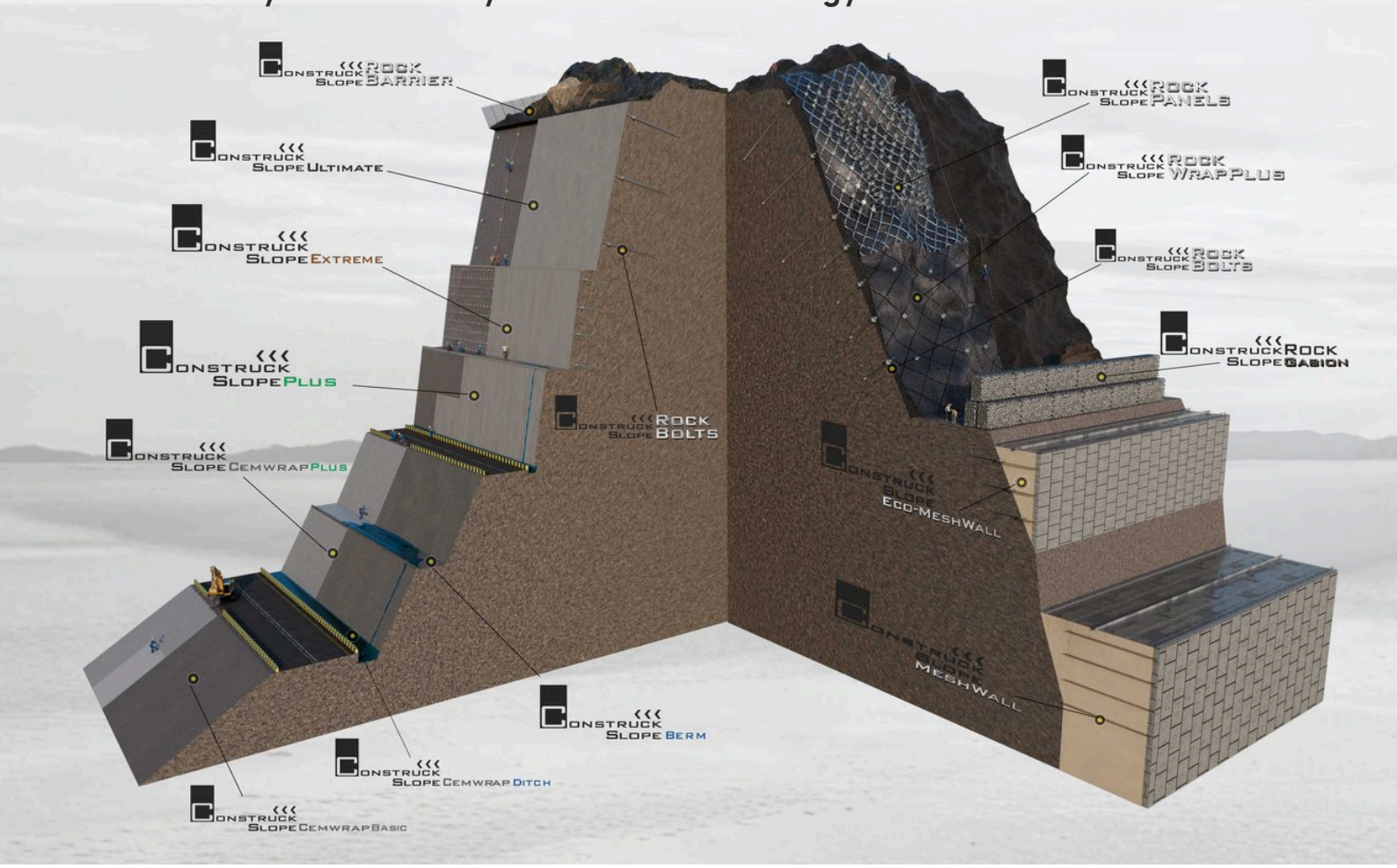
- **Dual protection**: erosion armor (CemWrap) + rock containment (mesh).
- **UV & heat durability**: basalt outer on CemWrap; coated mesh hardware options.
- **Low-elongation strength**: internal biaxial geogrid resists in-plane shear/tearing.
- **Secure edges**: trench shear-locks + closed **perimeter cables**.
- **Faster, lighter, safer** than shotcrete; minimal heavy plant.
- **Easy maintenance**: patch CemWrap locally; lace in mesh repair panels.



Control rocks. Control rain. One hybrid face.

ConstruckSlope CemRockWrap Basic combines the erosion-proofing of CemWrap with the containment of double-twist drapery - a faster, cleaner alternative to shotcrete for weathered rock slopes where global stability is adequate, traffic safety is paramount, and long-life performance matters.

The Widest Range of SPaaP® in the World, Powered by Construck Systems and Technology.



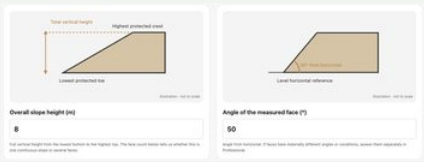
Digital support

Better decisions. A stronger project.

Explore the options, strengthen the technical basis and connect the people, information and delivery behind your Construck system.

Construck Calc

Understand the ground.
Build the technical case.



Actual Quick Check interface / sample geometry.

Quick Check
A free first step into relevant systems, preliminary quantities and indicative cost.

Professional
Bring surveys, ground conditions and existing studies into a project-specific assessment.

A further stability study
A project-specific stability study is included for each slope we take forward for protection.

calc.construck.me

ProjectSuite

One connected platform.
Support from start to finish.



Actual development workspace / sample records.

Manufacturer expertise, local support
Connect technical teams and authorised local partners around the selected Construck system.

Supply and construction, coordinated
Keep technical preparation, material supply and installation quality in the same workflow.

Sustainability and handover
Relate environmental estimates to project quantities and retain useful information for the asset.

construck.me/project-suite

Quick Check is preliminary guidance. Professional assessment and support follow the agreed scope and required approvals.













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