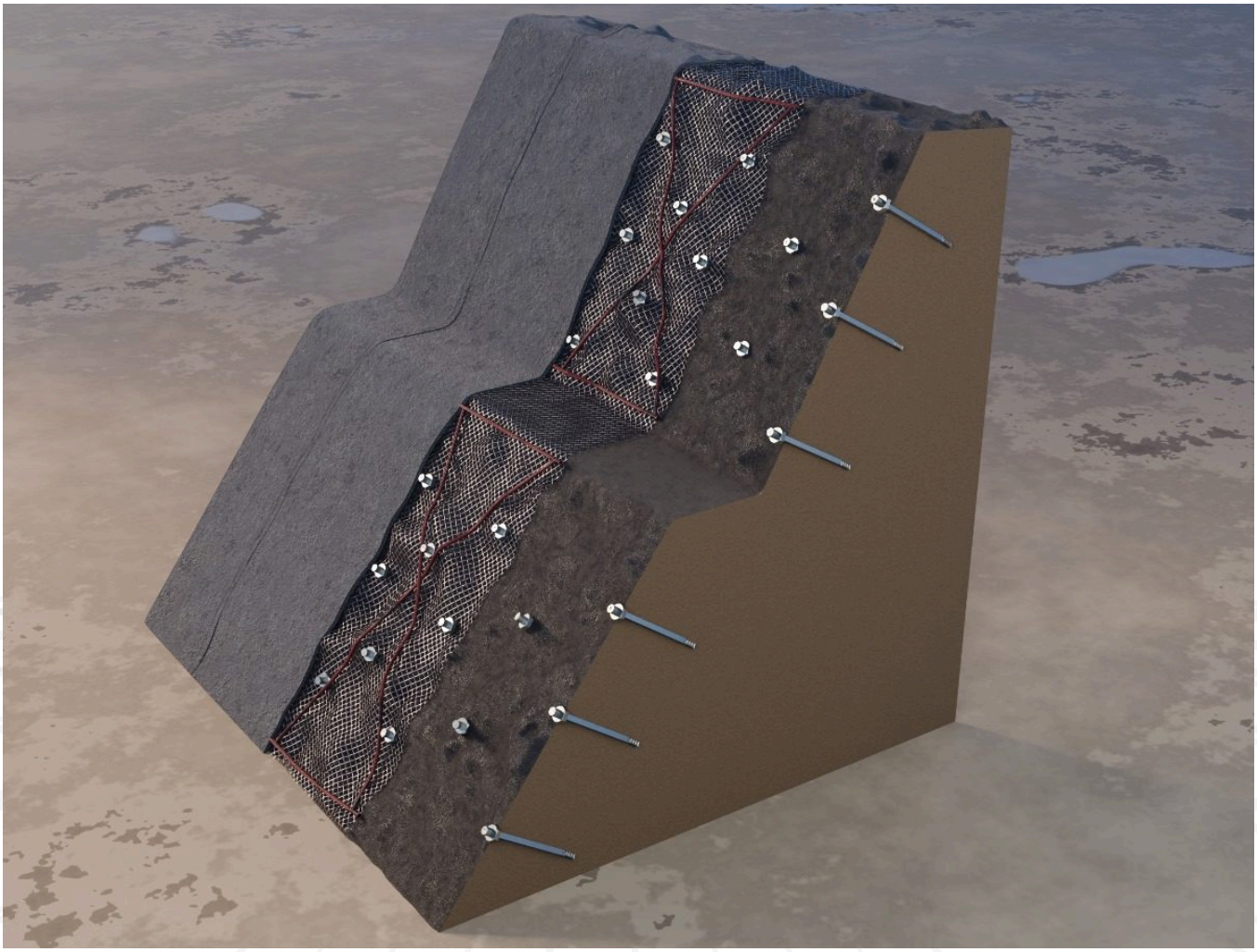
CONSTRUCK CEMROCK SLOPE WRAPPLUS

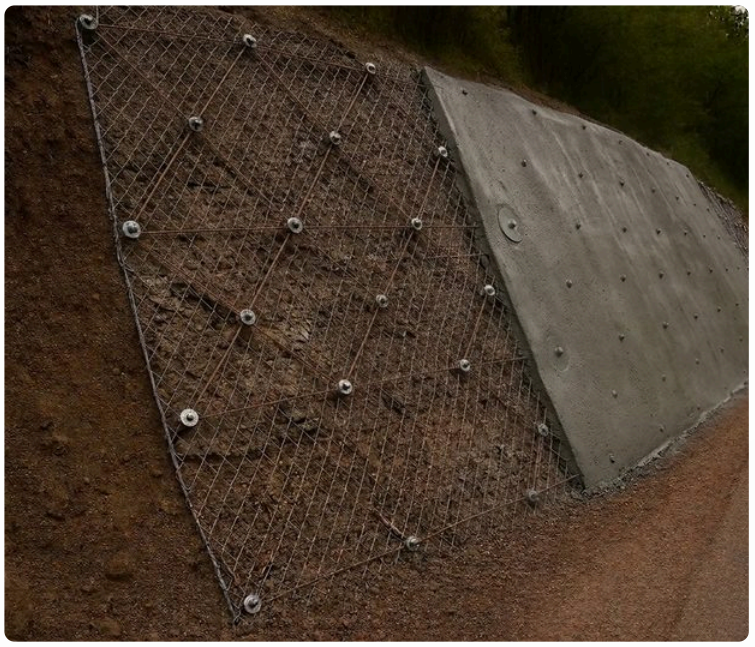
Secured Drapery Erosion Proof Reinforced Rock Slope Facing



CST-CRWP-BRO-00014
www.construck.me

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

Conventional wire-mesh drapery contains raveling rock but can balloon on irregular faces. CemRockWrap Plus combines double-twist mesh against the rock, perimeter and cross-laced wire ropes, and an outer CemWrap 20 GCCM facing. Eye-nut rock bolts secure the specified assembly. The criss-cross ropes keep the mesh close to the rock and share loads between anchors; the outer GCCM facing limits rainfall erosion. Anchorage, connections and edge details follow the project design.



Two protections in one

CemWrap 20 (with basalt UV outer and internal low-elongation biaxial geogrid) + **reinforced** double-twist mesh held down by **perimeter cables and cross-laced ropes**.

Face-conforming secured drapery

eye-nut bolts and criss-cross ropes maintain intimate contact with the rock, improving containment on overhangs and rough topography.

Outer GCCM facing

CemWrap shields the rock from rain impact and rilling, reducing debris load on the drapery and keeping catch ditches cleaner.

SPaaP—Slope Protection as a Product

a matched, factory-specified kit for repeatable quality and speed.

Where it is used

- **Weathered rock slopes** with raveling blocks, irregular faces, or minor overhangs where **global stability is adequate** and drapery is the right control.
- Road/rail cuts, portal approaches, coastal/wadi corridors with **high UV** and **salt spray**.
- Berms/benches can also be lined in **CemWrap** for continuous erosion control.

What problems it solves

- Rock shedding onto the carriageway, especially on rough/steep faces where conventional drapes balloon.
- Rain-induced rilling and face degradation behind ordinary meshes.
- Shotcrete cracking and corrosion on shallow rock slopes.
- Schedule and safety impacts from heavy formwork/shotcrete logistics.

System, Components & Benefits



Construck CemWrap 20 GCCM



Double-Twist Wire Mesh (DTM) Drapery



Rock bolts (3–6 m) with eye nuts



Wire Rope



Fixing & joint accessories

Benefits at a glance

Dual function

erosion armor (CemWrap) + secured containment (mesh + cross-ropes).

Face hugging

cross-laced ropes curb pillowing on irregular faces and overhangs.

Flexible & tolerant

accommodates small movements—no brittle cracking like shotcrete.

UV/marine ready

CemWrap basalt outer; coated mesh and stainless hardware options.

Program speed

lighter logistics than shotcrete; cleaner, safer works near live traffic.

Low life-cycle cost

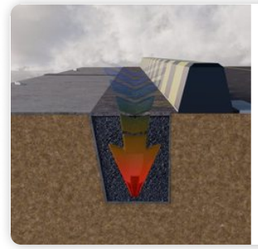
simple mesh lacing repairs and local CemWrap patching.

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



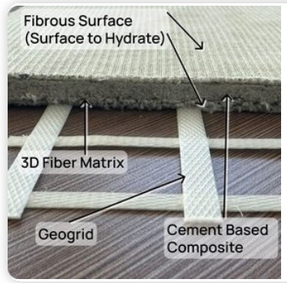
UV & Erosion Protection

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.



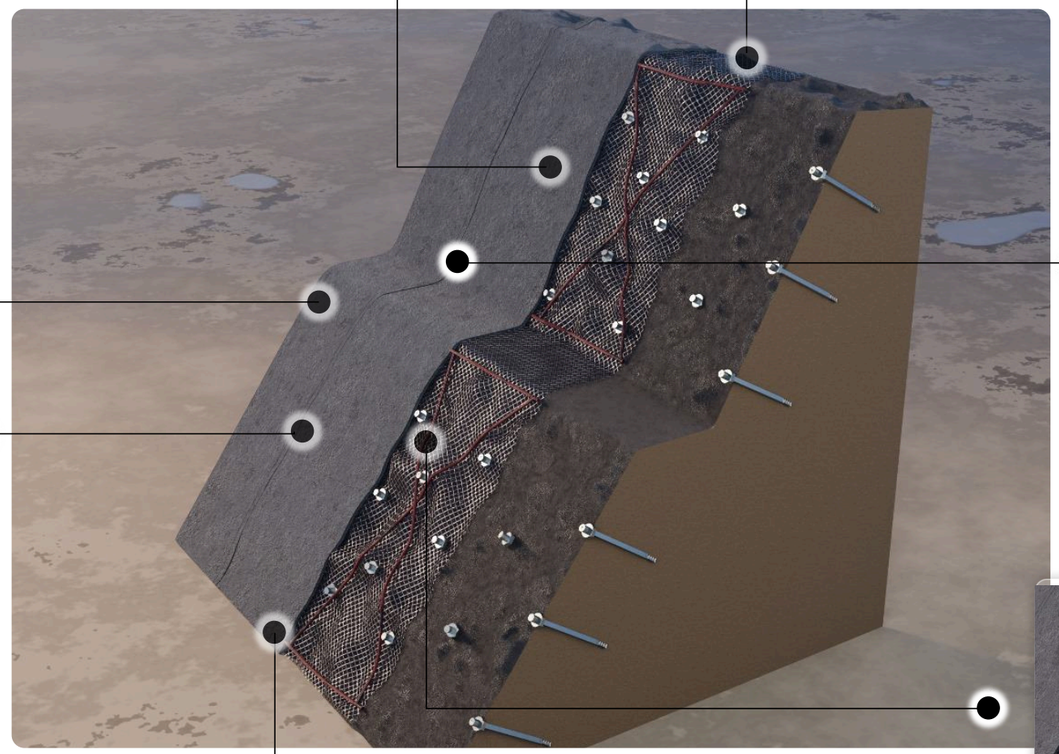
Secure Top Anchor

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

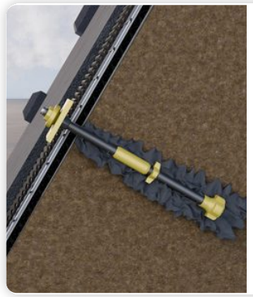
CemWrap combines a cement-filled fabric (GCCM) with an integrated geogrid to deliver efficient, reinforced erosion control. The GCCM hardens with water to form a thin, durable, and weather-resistant concrete layer, while the geogrid stabilizes the soil beneath —improving load distribution and enhancing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





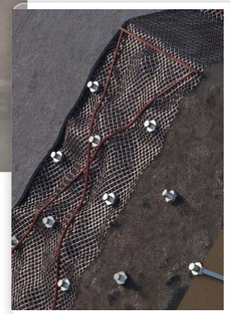
CemWrap Joint (Overlap Zone)

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.



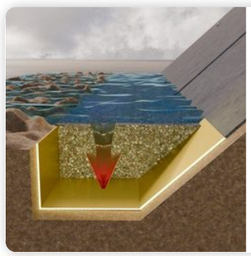
Deep Stability with Rock Bolts and Anchors

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 Reinforced Mesh Containment

Tensioned wire mesh with internal reinforcement cables, supplied in Zn-Al (optionally polymer-coated) with stainless hardware options for marine sites, holds 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 Plus 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 secured hybrid changes rockface management

Containment + Hydrology + Conformity

CemWrap **stops erosion**; mesh **contains ravel**; **cross-laced ropes** keep the drape close to the face—limiting sag and improving energy sharing to anchors.

Crack-free philosophy

Flexible composite accommodates micro-movements and temperature cycles without brittle fractures or corrosion triggers typical of shotcrete.

Straight-from-factory quality

Matched materials and accessories; simple, auditable QA.

SPaaP — Slope Protection as a Product

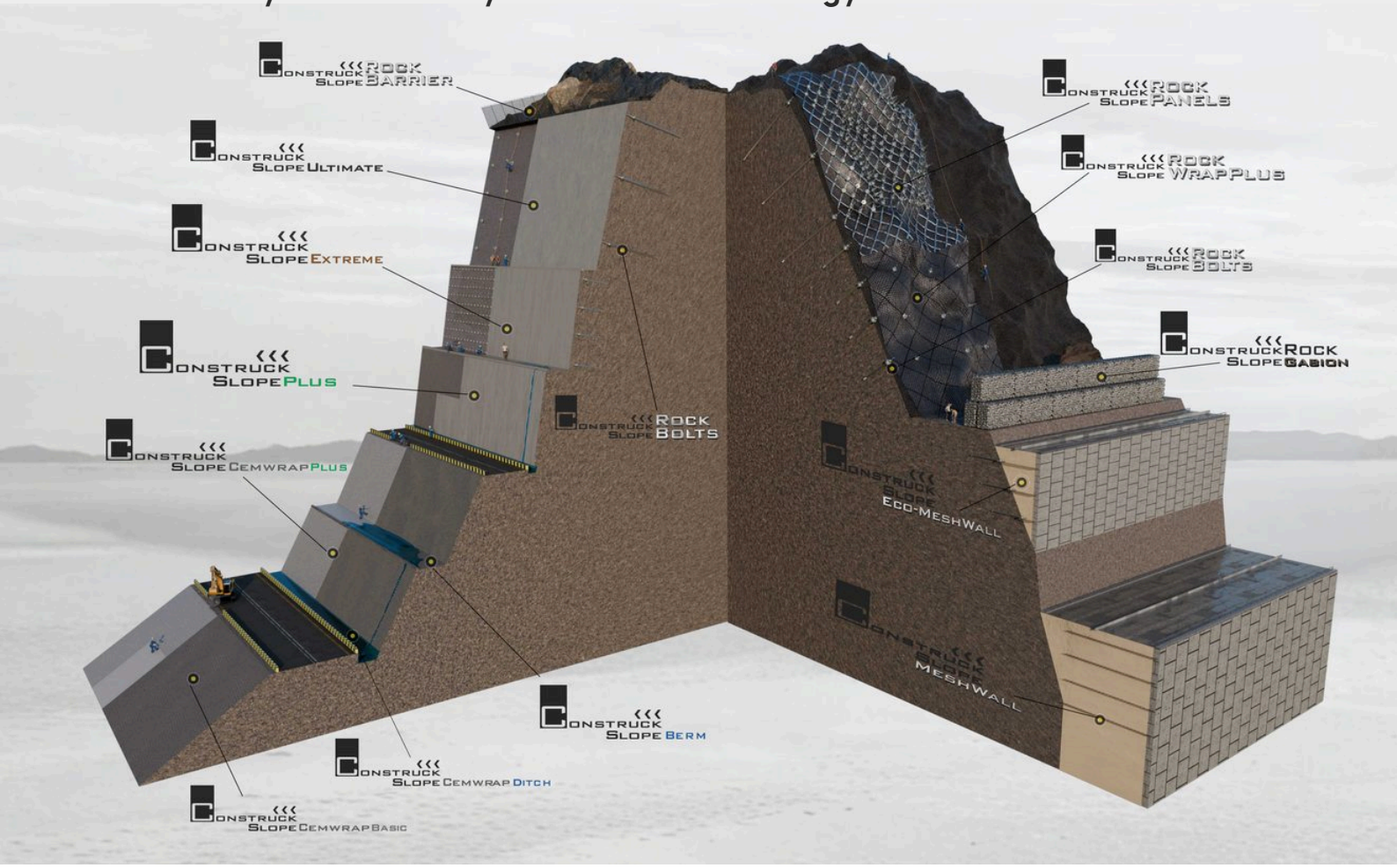
- One **matched kit**, one trained crew, one warranty path—no split responsibility.
- **Pre-performance-tested** components accelerate approvals and reduce site variability.
- **Faster programs**: fewer trades, lighter logistics, safer work near live traffic.
- **Ease of maintenance**: lace in mesh repair panels; patch CemWrap locally with new edge locks.

Advantages

- **Dual protection**: erosion armor (CemWrap) + **secured** rock containment (mesh + cross-ropes).
- **Face-hugging control** on irregular/rough slopes—less pillowing, better load sharing.
- **UV & heat durability**: basalt outer on CemWrap; coated mesh & stainless hardware options for marine/coastal sites.
- **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.
- **Low life-cycle cost** with simple, local repairs.



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



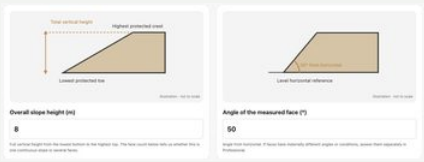
Digital support

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.

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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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