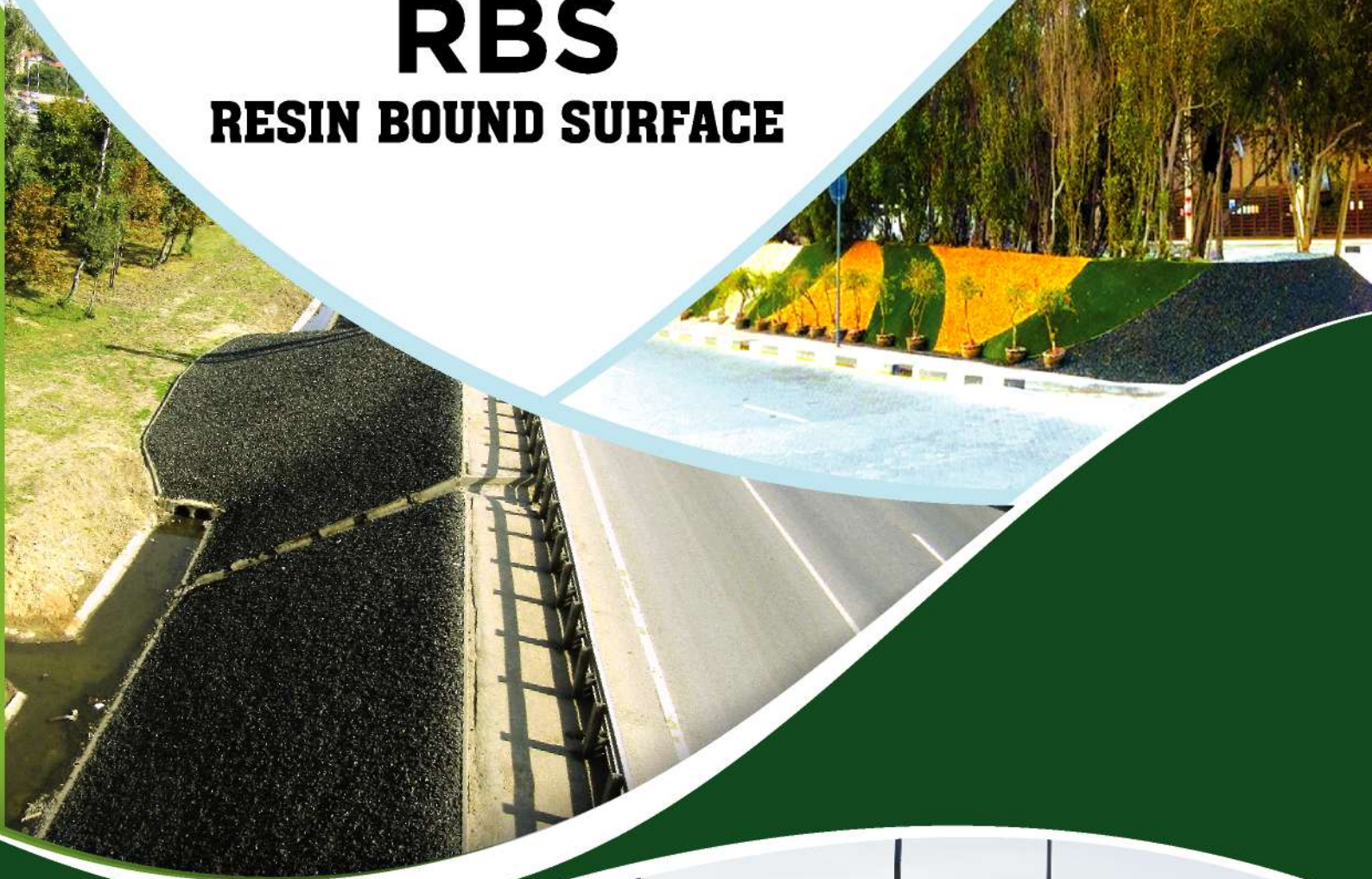


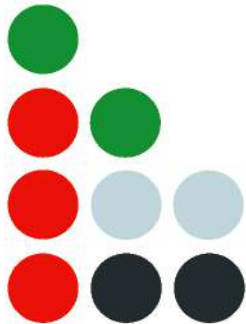


**EMBANKMENT ROAD
LANDSCAPING
WORK LLC**

RBS

RESIN BOUND SURFACE





EMBANKMENT ROAD LANDSCAPING WORK LLC

Tel.: +971 (0)4 587 70 86; +971 52 103 61 63

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The Exchange tower,
Office 304,**

Website: www.rbs-rus.ae

E-mail: rbsproduction@rbs-rus.ae

About & Product

RBS is a high performance two-compound UV stable resinbinder.

The product is a clear polyurethane high viscosity formulated, intended for mixing with hard materials such as granite or gravel. RBS is supplied as a single system consisting of two components:



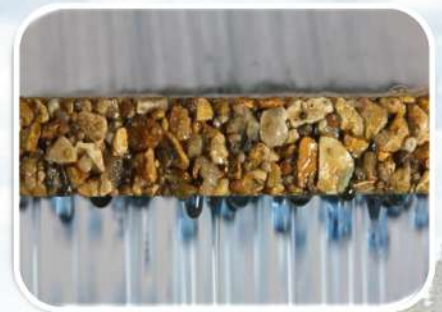
Compound A
polyol



Compound B
polyisocyanite



Compressive strength 8 - 10 MPA
Bending strength more than 1 MPA
Water permeability 100 %



RBS technology has been developed to create durable protective surfaces with the use of natural stone or gravel and decorative elements of landscape design.

The strength of the surfaces created by the RBS material is comparable to the strength of concrete and asphalt surfaces therefore RBS technology can be widely used in road construction for road embankments protection and for bridges foundation protection, also RBS technology can protect any slope surface from any type of soil erosion.

Due to the usage of natural materials (different kinds of stone, shapes and colors) the surface will be naturally integrated into landscape design.



Advantages

- The material is totally environmentally friendly.
- Time proven durability of structure is already more than 6 years. Live cycle in laboratory test is more than 30 years.
- UV resistance.
- Resistance to extremely low and high temperature: from -80°C to $+100^{\circ}\text{C}$.
- Final surface strength is achieved in just one day.
- The surface can be easily cleaned by water flows and industrial vacuum cleaner.
- The use of gravel of various colors, as well as the ability to create various graphic forms and patterns, makes the surface exceptional and beautiful.
- High strength.



Areas of Application

- Landscape and hardscape design.
- Soil erosion protection.
- Protection of riverbeds, riverbanks and coastal slopes from distraction.
- Road slopes and foundation protection from automobile vibrations and rain flows.
- Embankment and culvert protection.
- Gabions strengthening.
- Railways protection and reinforcement.
- Pedestrian zones, walkways, public parks, gardens
- Backyards and car parks of the hotels and private villas.
- Airports, factories and warehouses, military areas.



Soil Preparation

Soil filling on the
Problematic areas



Surface leveling and
soil compaction



Geotextile Laying

Installation of Geotextile
(for water flows allocation)



Reinforcement Laying

- Geogrid/geoweb or Plastic armature



Crushed Stone Placing

- Stone specification: Clean stone chips $\text{Ø}(25 - 60)\text{mm}$ with strength not less than 100 MPa



RBS Application

- RBS material is evenly applied on the levelled surface
- The amount of RBS material depends on the stone layer thickness



Intersection Slope Reinforcement, Ras Al Khaimah (MOID)



UAE



Slope reinforcement in Khorfakkan city,
Al Mousallah project Sharjah (MOID)



storm protection dam

MOID, Masafi town, Fujairah.



Protection of Water Channel

Russia

Before



After



Large scale erosion control works on
E11 Sheikh Zayed road in Dubai
Marina (exit 29)

Before



After 2.5 years



Urban Landscape Design improvement on E11 Sheikh Zayed Road in JAFZA

Before



After 3.5 years



Solution



- **COMPLETE SOLUTION FOR PROBLEMATIC PLACES**
(engineering manufacturing, installation, after-sale warranty);
- **APPLICATION OF INNOVATIVE, ECO-FRIENDLY TECHNOLOGY**
(PU adhesive);
- **TESTED METHOD** (over than 3 years of live tests in UAE and more than 7 years in Russia);
- **ONE-TIME INVESTMENT FOR 10 YEARS GUARANTEED DURABILITY;**
- **NO TRAFFIC INTERRUPTION**
(no heavy equipment, cranes, etc.)
- **LIMITED TIME-FRAME FOR WORKS.**

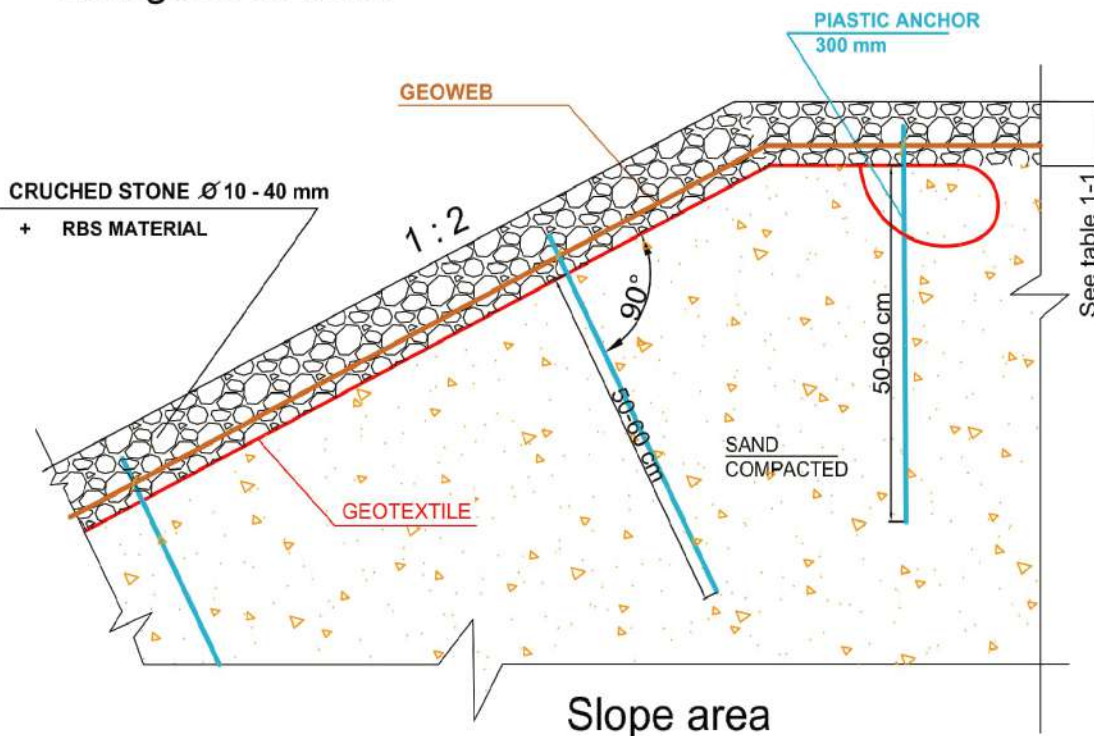
Price Proposal

DESCRIPTION:

- Layer of gabbro aggregates 10 sm binded by RBS material and reinforced \varnothing 8mm fiberglass rebar Or Plastic Geo web
- Slope more than 30°
- 10 years warranty

124 AED/m²

RBS technology with crushed stone, geotextile and geoweb base



NOTE:

1. Crushed stone must be clean and hard size stone 20-60mm
2. Geotextiles type use in work:
A- GeoMatt NPS10XL-100g/m²
B- GeoMatt NPS12XL-120g/m²
3. Anchor diameter not less than \varnothing 8mm
4. Sand compacted must have 95% .
5. Geoweb mesh size depending on stone size (2X2 cm - 20X20 cm).
6. Plastic mesh \varnothing 3-10mm.

EMBANKMENT ROAD
LANDSCAPING
WORK LLC

Per	Description	Date	Checked	Author

Stage: _____

Project: _____

Client: _____

Contract: _____

Drawing title:

RBS TECHNOLOGY WITH
CRUSHED STONE ON SLOPE
SURFACE

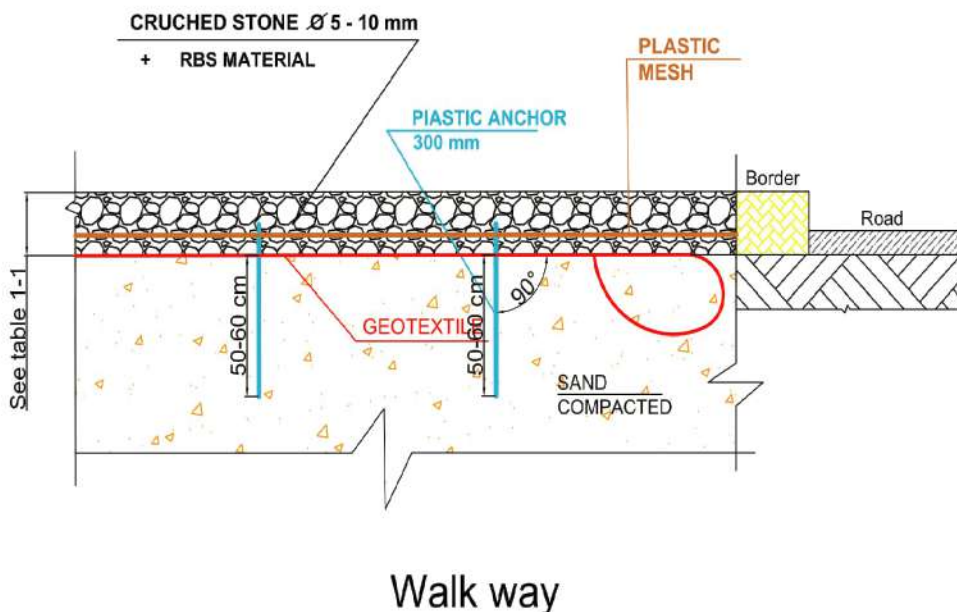
Scale	Drawn	Checked	Authorized	Size
N.T.S.				
Date:	Date:	Date:	Date:	Size:

DESCRIPTION:

- Layer of gabbro aggregates 5 sm binded by RBS material and reinforced \varnothing 8mm fiberglass rebar
- Slope less than 30°
- 5 years warranty

83 AED/m²

RBS technology with crushed stone, geotextile and plastic mesh base



NOTE:

1. Crushed stone must be clean and hard size stone 20-60mm
2. Geotextiles type use in work:
A- GeocMast NPS 10XL-100g/m²
B- GeocMast NPS 12XL-120g/m²
3. Anchor diameter not less than \varnothing 8mm
4. Sand compacted must have 95%
5. Geoweb mesh size depending on stone size (2X2 cm - 20X20 cm).
6. Plastic mesh \varnothing 3-10mm.

EMBAKMENT ROAD
LANDSCAPING
WORK LLC

No	Description	Date	Order	Revised

Stage:

Project:

Client:

Consultant:

Drawing title:

RBS TECHNOLOGY WITH
CRUSHED STONE ON walkway
Area

Scale	Drawn	Checked	Authorized	Size
1:1				

Date:

Date:

Date:

Price Proposal

DESCRIPTION:

- RBS Application on sand or subbase surfaces
- 1 years warranty

40 AED/m²

