

# GEOCOIR® / DeKoWe®

GEOCOIR® / DeKoWe® are geotextiles that are made from pure coir drawn from the husk of the coconut, a 100% natural product with the highest tensile strength of any natural fiber.

GEOCOIR® / DeKoWe® can be installed where long term usage is required. These fabrics come in a variety of weights and configurations with a service life of 3-5 years.

The woven coir blanket is available in three weights: 400, 700 and 900 grams/sq. meter (12,20,26 oz/yd). Each fabric provides a unique engineering and erosion protection function.

## GEOCOIR®/DeKoWe® 400

- Lightweight coir fabric
- Open weave construction allows for hydro-seeding after installation
- Great for cool weather grasses that will require re-seeding with permanent covers
- Strong enough to hold sod in place
- Long lasting (4-10 years) where short growing seasons are not conducive to fast establishment of vegetation
- Open weave, high strength erosion control fabric
- For use on slopes of up to 3:1
- Allows for standard water velocities or velocities of up to 8'/sec (2.4m/sec)



Secured by using wooden stakes as pictured here.

## GEOCOIR®/DeKoWe® 700

- Geogrids - vegetation
- Landscape through fabric
- Hydrosprigging/hydroseeding after installation
- Handseed prior to installation
- Do not stretch fabric - lay loosely on surface so all fibers can make contact on the soil 20.6oz/sy fabric
- Available in widths up to 4 meters wide.
- Water flows up to 10'/sec (3.0m/sec)
- Used on slopes of up to 1:1



GEOCOIR®/DeKoWe® 700 being used in a vegetated geogrid and blanket application to protect a sand embankment from tidal and pleasure boat wave action.

## GEOCOIR®/DeKoWe® 900

- Geogrids - vegetation
- Landscape through fabric
- Beach Residementation/remediation
- Economic substitute for synthetics
- Silty soils - tidal areas
- Water channels
- 26.6oz/sy fabric
- Available in widths up to 4 meters wide
- Used on slopes of up to 1:1
- Specifications
- Water flows - 15'/sec (4.6m/sec)
- Seed prior to application of fabric



Slopes of greater than 1:1 are no problem for GEOCOIR®/DeKoWe® 900

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EROSION CONTROL, LINERS, GEOTEXTILES, BMP'S & SWPPP'S

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## GEOCOIR® / DeKoWe® Specifications

Properties	Test Method	400	700	900
Yarn	ANJENGO; wheel spun, well cleaned, evenly spun and uniformly twisted; scorages range from 12 to 20.			
Material	-	100% Spun Coir	100% Spun Coir	100% Spun Coir
Weight /S.Y.	ASTM -3776C	11.8 oz	20.6 oz	26.6 oz
/S.M	-	400 grams	700 grams	900 grams
Open Area	-	65%	50%	39%
Wide Width Tensile	ASTM D 4595-86			
Dry	lbs./in. (KN)	51/31 (0.23/0.14)	112/54 (0.50/0.24)	159/53 (0.71/0.24)
Wet	lbs./in. (KN)	38/24 (0.17/0.11)	86/41 (0.38/0.18)	122/39 (0.54/0.17)
Elongation at Failure %				
Dry	(MD/CD)	35/30	51/36	68/32
Wet	(MD/CD)	47/44	64/48	82/49
Maximum Shear Stress lbs/ft2 (N/M2)		3.1 (148.72)	4.46 (213.96)	4.63 (222.11)
Chezy-Manning's Coefficient of Roughness*		0.0254	0.0294	0.0334
"C" Factor (1.5:1 slope)	-	N.A.	0.003	0.002
Water Flow Velocity		8 ft./sec.-2.4m/sec.	10 ft/sec. - 3.0 m/sec	15ft/sec- 4.6m/sec
*University performance testing done in flat channels.				

## ROLL PACKAGING

Style	Width		Length		Weight/Roll		Area/Roll	
	Meters	Inches	Meters	Yards	Lbs.	KG	Sq.Mtr	Sq Yd
400	2	78.7	50	55	88	40	100	120
	4	157.5	50	55	176	79.8	200	240
700	2	78.7	50	55	154	59.8	100	120
	3	118.1	50	55	231	164.8	150	180
	4	157.5	50	55	309	140.2	200	240
900	2	78.7	50	55	198	89.8	100	120
	4	157.5	50	55	397	180.1	200	740

**GEOCOIR® / DEKOWE®** manufactured by: **Belton Industries**  
distributed by:



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