

Carbon Fiber Reinforced Polymer [CFRP] Anchor Cord Wrap System is Longitudinal & Latitudinal Data Wrap Type

Pioneer in CFRP,
Smart & Clever for Composites

Structural Strengthening
Building & Civil Engineering
[Column, Beam & Slab]

Build Wrap Cord 60

Weight of Fiber List

60g/Linear Meter x 25/m/roll [1.50 kg]

**Carbon Fiber Cord,
is Unidirectional Fiber Filaments Data Wrap Type
Carbon Fiber Weight Content, 60 gm/linear meter
Strengthening System
for connection or anchoring**

Build Wrap Cord 60® is a unidirectional cord mesh wrap system of longitudinal oriented, continuous carbon fiber filaments which are held in position by a lightweight, **Build Wrap Cord 60®** has robust handling and rapid wet-out characteristics which make it ideal for on-site strengthening of structural of structure reducing of the concrete reinforced thickness, for tunnels or buildings, bridges & marine structures. Additionally, **Build Wrap Cord 60®** is compatible with all commonly used resin systems which can be applied using a variety of wet-out/resin infusion techniques.



"Build Wrap Cord 60"



Install on **"Build Mesh CF"** on R.C. Beam

Property of Products Specification

Product Name & Specification	Weight of Carbon Fiber [gm/linear meter]	Diameter of [mm/Ø]	Roll Length [m]
Build Wrap Cord 60 Longitudinal, 12K Carbon Fiber	60gm/m [1.500/kgs/roll]	1.5-5.5	25

Specification Properties Data Sheet

“Build Mesh CF®” - Carbon Fiber Filament Yarn [Actual Dry Fiber] Properties

Typical of Carbon Fiber Properties	SI / Units UK design		US / Units US design	
Tensile Strength	4,900	Mpa	710,500	psi
Tensile Modulus	230-235	Gpa	32.80 x 10⁶	psi
Ultimate Elongation	1.80	%	1.80	%
Density	1.79	g/cm ³	0.0646	Ib/in ³
Cross-Sectional Area per Filament	0.43	mm ²	6.63 x 10⁻⁴	in ²
Approximate Yield (12K)	1.31	m/g	1,950	Ft/Ib
Filament Shape	Round		Round	
Filament Diameter	6.7	µm	0.265	mil
Weight/length	0.765	g/m	42.8 x 10⁻⁶	Ib/in



Install of **Build Wrap Cord 60**
For Reducing of Micro Concrete or Microgrout or Shotcrete
Thickness, it from 150mm reduced until 45mm Thick

Surfaces Preparation

Reinforced concrete surfaces shall be clean, structurally sound and free from foreign materials, contaminants, oily and other debris. Concrete surfaces shall not be more than 4% moisture content and the temperature of the substrate must be at least 3°C (or) and above the current dew point temperature.

Use patching method of Polymer Cementitious Mortar or pumping of High Strength Cementitious Grout. But only for concrete surfaces cracks 0.25mm, must be injected with Low Viscosity of Epoxy Resin to be filled. Using high pressure Air-Less Pump for injecting, and penetration into structural crack lines, to achieve load bearing and adhesion bonding system.

Once patched, pumped or injected before laying Carbon Fiber Mesh Fabric System, all surfaces must be Hammer Tested for Polymer Cementitious Mortar, High Strength Cementitious Grout and Pull-Off Test for Cracks Lines. For achievement of strength requirement please consult your local Engineer.

For Uneven Surfaces Mixing of Paste Putty

Use a low speed (300 to 500 rpm) electric drill fitted with a paint mixer or a wing type paddle. Pour one unit of Part A & B into drum and mix for at least 5 minutes until the mix is uniform and free. (Note: Once have been mixing, the Paste Putty must be applied within 60 minutes of Pot Life).

Mixing of Epoxy Resin Wrap

Use a low speed (300 to 500 rpm) electric drill fitted with a paint mixer or a wing type paddle. Pour one unit of Part A & B into drum and mix for at least 3 minutes until the mix is uniform and free. (Note: Once have been mixed, the Epoxy Resin or Polyurethane Resin must be applied within 60 minutes of Pot Life).

System Recommended Use Resin Component

Epo Resin Wrap is Epoxy Solvent Free (Bisphenol-F)
Two Component of Part A & Part B.

Suitable for applying on Over Head or Vertical or Horizontal Surfaces

Important 1:

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Health & Safety

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.


LAMACO SYSTEM SDN BHD

Co. No. 1033557-M

407, Jalan Perusahaan 6, Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah. Malaysia

Tel : +60-4-734 5555 Fax : +60-4-772 4444

Http : www.lamaco.com Email : info@lamaco.com

 : +60 19 4486611 +60 19 4786611



Epo Resin Wrap®

Epoxy Resin Properties of Specification (Liquid Based: Solvent Free)

Compressive Strength	DIN 53454	50 N/mm ²
Flexural Strength	DIN 53452	37 N/mm ²
Tensile Strength	DIN 53455	80 N/mm ²
Bonding Strength		Excellent bond to structural
Tension Elongation at Break		6%
Solid Volume		100% High Solid Resin
Viscosity at 25 °C		40000-60000 (±550) mPa.s
Density at 25 °C		1.02 g/cu. cm
Pot Life at 25 °C		> 45 minutes until 60 minutes
Cure Time at 25 °C		As pot life test method
Specific Gravity		1020 g/liter
Flash Point		> 200 °C
Tear Resistance		Excellent on External & Internal Layer
Abrasion Resistance		10 sec/1000 cycle, 0.01% Peeling of on Top Surfaces
Fire Resistance		Burning Test, Good Conditions of Class 0
Coverage Thickness		0.50 kg to 1.20 kg/m ²
Stability Under Heat	DIN 53458	70 °C
Glass Transition Temp	DIN 53445	90 °C
Shore A Hardness		None
Shore D Hardness	DIN 53505	82-86%
Packing		2 kg pack, 5 kg pack & 10 kg pack



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