CORBELL

Retrofitting System Products

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# CORBELL® Wrap 150 C

Carbon Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating Structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® Wrap 200 C

Carbon Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking Structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® Wrap 240 C

Carbon Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking Structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® Wrap 300 C

Carbon Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking Structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® Wrap 200 G

Glass Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking Structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® Wrap 400 G

Glass Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking Structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® Wrap 600 G

Glass Fiber Fabric for Structural Strengthening Systems


## Product Advantages

- High tensile strength
- Light weight
- Protect structure elements and reinforce
- Corrosion resistance
- Dry lay-up
- Alkali resistant

## Product Uses

- Loading increases
- Seismic strengthening
- Damage to structure parts
- Change in structure system
- Design or construction defects

This product can be used to resolve strength deficiencies of reinforced concrete structures and also increase the load carrying capacity of building, bridges, marine structures, tunnels, silos and parking structures, etc.

## Loading Increases:

- Increase the capacity of carrying load in order to change in bad building use.
- Increase the live load for industrial buildings and vibrating structures.
- Increase the capacity of carrying live load for bridges in order to extend traffic volumes.
- Increase the load capacity of parking Structures.

## Seismic Strengthening.

- Column wrapping to Increase capacity of axial load and conferment for ductility improvement.
- Shear strengthening
- Flexural strengthening

## Damage to Structure Parts.

- Correct strength deficiency due to corrosion.
- Retrofitting of structure elements damage by fire.

## Change in Structure System:

- Strengthening of structures element in order to removal of walls or columns.
- Remove of slab sections for openings.

## Design or Construction Defects:

- Low compressive strength of structure concrete.
- Insufficient amount of structural reinforcement.
- Insufficient size of reinforcement.
- Insufficient reinforcing bar or overlap Length.

## Construction Process

1. **Surface Preparing:**
   Remove the coating of concrete surface with grinder. Polishing the Surface. If there is angular, grinder it into round.
2. **Setting out:**
   Get the concrete surface clean and keep it dry, then setting out.
3. **Apply Primer:**
   Apply primer adhesive onto the surface of the concrete.
4. **Apply Putty/Leveling:**
   Apply putty for repairing and leveling if needed.
5. **Fabric Cutting:**
   Cut (Carbon - E Glass) fiber fabric into sizes as designed.
6. **Preparing the impregnation adhesive:**
   Weight and mixing adhesive according to ratio. Stirring the adhesive until the color is even. Avoid air bubble in this process.
7. **Applying Impregnation Adhesive:**
   Apply impregnation adhesive when primer adhesive is touch dry.(If primer is not required, impregnated adhesive can be applied directly)
8. **Apply carbon- E Glass fiber fabric:**
   Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
9. **Check Gap or Bubble:**
   Apply impregnation (Carbon - E Glass) fiber adhesive again. Make sure the adhesive impregnate fully into the fabric. The surface flat and Lack off air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

## General Technical Data for CORBELL® Structural Wrap

| Fiber Type | Weave | Thickness (mm) | Weight (Gr/mm) | Tonsile Strength (Mpa) | Tonsile Modulus (Gpa) | Elangation |
|---|---|---|---|---|---|---|
| Corbell Wrap 150C | UD Carbon | 0.084 | 150 | 4900 | 230 | 109% |
| Corbell Wrap 200 C | UD Carbon | 0.112 | 200 | 4900 | 230 | 109% |
| Corbell Wrap 240 C | UD Carbon | 0.135 | 240 | 4900 | 230 | 109% |
| Corbell Wrap 300 C | UD Carbon | 0.168 | 300 | 4900 | 230 | 109% |
| Corbell Wrap 200 G | UD Glass | 0.078 | 200 | 2300 | 90 | 3.9% |
| Corbell Wrap 400 G | UD Glass | 0.157 | 400 | 2300 | 90 | 3.9% |
| Corbell Wrap 600 G | UD Glass | 0.236 | 600 | 2300 | 90 | 3.9% |

# CORBELL® ERS – 707 Glop

Epoxy Resin Structural Strengthening Systems


CORBELL ERS 707 Glop Is 2 - Component Epoxy past that can be used following application. Excellent installing FRP fabrics on concrete, steel and metals.

## Product Advantages:

- Outstanding adhesion to concrete, steel, masonry, wood and composites.
- Excellent chemical resistance.
- High mechanical properties.
- Hardness without shrinkage.
- Able to operate in temperatures from 5c° - 45c°

## Working Surfaces:

- Surfaces must be free of any material that may deter adhesion, including severe and thick amounts of drywall Joint Compound. Patch large holes and depressions and remove any bumps high spots, dust all and grease. The surface to be bonded must be level.

## Mixing:

- Add 2 Component and mix for 3-5 minutes with Low Speed drill until a uniform mixture is obtained. The ratio of mixing is A:B=5:1

## Material Consumption:

- For installing all FRP fabric in normal thickness consumption is about 0.8-1.2 kg/m²
- It is necessary to check all part of FRP fabric to be saturated.

## Storage and Shelf Life:

- Store this product in dry condition, out of direct sun light and protected from extreme hot and cold. Store at between 5°c and 25°c, in this conditions Shelf, Life is at least 24 months for open package.

## Safety Precautions:

- In case of skin contact may cause skin irritation.
- Wash thoroughly with soap and water.
- For eye contact, flash immediately with plenty of water; contact physician immediately.
- Wear gloves and goggles.

## Technical Data for CORBELL® ERS – 707 Glop

| Property | Condition | Value |
|---|---|---|
| Color | Mixed | Yellow |
| Mixed ratio | By weight | 5:1 (100gr resin:20 gr hardener) |
| Pot life | After mixing | 30 minutes |
| Heat resistance | After cured | 80 c˚ |
| Density | 25 c˚ | 1.75 Kg/L (mixed) |
| Bonding strength | After cured | >2.5 Mpa |
| Tensile strength | After cured | >2.5 Mpa |
| Full cured | 25 c˚ | 7 Days |

# CORBELL® ERS – 777

Epoxy Resin Structural Strengthening Systems


CORBELL ERS 777 Is 2 - Component Epoxy past that can be used following application. Excellent installing FRP fabrics on concrete, steel and metals.

## Product Advantages:

- Outstanding adhesion to concrete, steel, masonry, wood and composites.
- Excellent chemical resistance.
- High mechanical properties.
- Hardness without shrinkage.
- Able to operate in temperatures from 5c° - 45c°

## Working Surfaces:

- Surfaces must be free of any material that may deter adhesion, including severe and thick amounts of drywall Joint Compound. Patch large holes and depressions and remove any bumps high spots, dust all and grease. The surface to be bonded must be level.

## Mixing:

- Add 2 Component and mix for 3-5 minutes with Low Speed drill until a uniform mixture is obtained. The ratio of mixing is A:B=5:1

## Material Consumption:

- For installing all FRP fabric in normal thickness consumption is about 0.8-1.2 kg/m²
- It is necessary to check all part of FRP fabric to be saturated.

## Storage and Shelf Life:

- Store this product in dry condition, out of direct sun light and protected from extreme hot and cold. Store at between 5°c and 25°c, in this conditions Shelf, Life is at least 24 months for open package.

## Safety Precautions:

- In case of skin contact may cause skin irritation.
- Wash thoroughly with soap and water.
- For eye contact, flash immediately with plenty of water; contact physician immediately.
- Wear gloves and goggles.

## Technical Data for CORBELL® ERS – 777

| Property | Condition | Value |
|---|---|---|
| Color | Mixed | Yellow |
| Mixed ratio | By weight | 5:1 (100gr resin:20 gr hardener) |
| Pot life | After mixing | 30 minutes |
| Heat resistance | After cured | 80 c˚ |
| Density | 25 c˚ | 1.75 Kg/L (mixed) |
| Bonding strength | After cured | >2.5 Mpa |
| Tensile strength | After cured | >2.5 Mpa |
| Full cured | 25 c˚ | 7 Days |

# CORBELL® EPR – 77

Epoxy Resin (Putty) Structural Strengthening Systems


CORBELL EPR 77 Is 2 - Component Epoxy past that can be used following application. Excellent installing FRP fabrics on concrete, steel and metals.

## Product Advantages:

- Outstanding adhesion to concrete, steel, masonry, wood and composites.
- Excellent chemical resistance.
- High mechanical properties.
- Hardness without shrinkage.
- Able to operate in temperatures from 5c° - 45c°

## Working Surfaces:

- Surfaces must be free of any material that may deter adhesion, including severe and thick amounts of drywall Joint Compound. Patch large holes and depressions and remove any bumps high spots, dust all and grease. The surface to be bonded must be level.

## Mixing:

- Add 2 Component and mix for 3-5 minutes with Low Speed drill until a uniform mixture is obtained. The ratio of mixing is A:B=5:1

## Material Consumption:

- For installing all FRP fabric in normal thickness consumption is about 0.8-1.2 kg/m²
- It is necessary to check all part of FRP fabric to be saturated.

## Storage and Shelf Life:

- Store this product in dry condition, out of direct sun light and protected from extreme hot and cold. Store at between 5°c and 25°c, in this conditions Shelf, Life is at least 24 months for open package.

## Safety Precautions:

- In case of skin contact may cause skin irritation.
- Wash thoroughly with soap and water.
- For eye contact, flash immediately with plenty of water; contact physician immediately.
- Wear gloves and goggles.

## Technical Data for CORBELL® EPR –77

| Property | Value |
|---|---|
| Color | Grey (mixed) |
| Pot life | 30 min 25 c˚ |
| Density | 1.75 kg /Lit (mixed) |
| Tensile and flexural strength | >25 Mpa |
| Compressive strength | 70 Mpa (7 days) |
| Bonding strength | >3.5 Mpa |
| Full cured | 7 days |