

The application of Edco Technologies **Ectoflex 646™** will vary according to the specifications of the project. It is recommended that until familiar with the product, Edco Technologies Inc. should be consulted before proceeding with developing specifications for the actual application. This specification is intended to provide minimum requirements by Edco technologies.

Materials Ectoflex 646™

- Ectoflex 646™ Liquid Polymer (Component A)
- Ectoflex 646™ Powder (Component B)
- Ectoflex 646™ 2011 Reinforcing Mesh

The **Ectoflex 646™** unit comes pre-weighed and packaged for on-site mixing. Reinforcing mesh is required at all transitions, cracks and as otherwise specified.

Delivery, Storage and Protection

- Only use **Ectoflex 646™** products that are delivered to the site in original **Ectoflex 646™** containers.
- **Ectoflex 646™** materials must be stored in a dry area protected from rain, standing water, and moisture. Further, the products **must not be allowed to freeze**. Avoid high temperature storage facilities and do not store in direct sunlight. Use all means necessary to protect from adverse conditions before, during and immediately after installation (until fully cured). Full cure is dependant on ambient conditions.

Project Conditions

- The temperature of both the air and the substrate surface must be between +5°C (+41°F) and +32°C (90°F) before commencing the application of **Ectoflex 646™**. Further, the +5°C temperature must be maintained for a minimum of 12 hrs after application (dependent on ambient conditions).
- **Ectoflex 646™** is applied in two coats, the second coat to be applied after the first coat has dried sufficiently to allow the application of the second coat to not disturb the first coat. As ambient conditions will vary 1 to 2 hours is recommended. These layers must be protected from rain and water for at least 6 hours for **Ectoflex 646™** to perform.

Surface Conditions

- Carefully inspect all surfaces to be coated, to ensure that they are sound, smooth and free from surface irregularities and foreign matter that will impair adhesion to the substrate.
- If surfaces are found to be unsuitable for the application of **Ectoflex 646™**, do not proceed with any work, until satisfactory conditions have been achieved.
- Concrete cavities must be filled with sand/cement or grout.

Surface Preparation

- Once the surface conditions are found to be acceptable, the substrate should be pressure washed at 3000 to 4000 PSI to sufficiently ensure that all surface latencies are removed (eg. oil, grease, dirt, etc). A porous surface will enhance the mechanical bond of the coating.
- **Ectoflex 646™** may be applied to damp surfaces, but standing and running water must not be present.

Workmanship

- All work shall be performed by skilled, experienced personnel, capable of producing a first-class installation. If work crew is inexperienced in using **Ectoflex 646™**, an Edco Technologies Inc. representative should be on site to instruct the crew.
- Materials should be installed in a manner that produces a smooth, clean and evenly finished surface, at the thickness specified.

Application of Ectoflex 646™ Primer

- If priming is deemed necessary, add 1L of Component A into 4L of water and mix thoroughly. Brush, roll or spray primer to substrate. Allow to dry, until dry to the touch.

Reinforcement

- Install 2011 Reinforcement, where required into the first coat of **Ectoflex 646™**, applying sufficient pressure to embed the mesh.
- Reinforcement required at cracks, construction joints, transitions and as otherwise specified. Ensure reinforcement is completely covered when final coat is placed.

Ectoflex 646™ First Coat

- Empty the jug of **Ectoflex 646™** polymer into a suitable container. Gradually add Component B to the polymer to achieve required viscosity. Mix, as powder is being added. Mix ratio: 1-10L jug polymer / 1-20 kg pail, powder. Ensure that the powder is added to the polymer and not the polymer into powder.
- Mix for a minimum of 3-5 minutes with a heavy drill, 400 – 600 rpm and a Jiffy – type paddle with a "mud" type blade or an appropriate size mortar mixer. Ensure that any lumps in the powder are broken down. Continue mixing until a homogenous lump-free compound is produced (mix maximum 5 minutes).
- Do not add water, cement or solids into the mix.
- Application may be by roller, brush or spray.
- Apply 1mm of **Ectoflex 646™** to the substrate, ensuring that reinforcement is installed into first coat as specified.
- Let first coat dry sufficiently, to allow the second coat to be applied without disturbing the first coat. Typically 1-2 hours depending on ambient conditions.

Ectoflex 646™ Second Coat

- Again, application is by roller, brush or spray.
- Apply second coat as described above maintaining a minimum 1mm thickness, thus achieving a minimum total thickness of 2mm (80mil).
- Note: If additional coats are specified to achieve a greater total thickness, apply 1 mm per coat to a maximum overall thickness of 4 mm.
- Let the final coat cure for a least five days at +20°C (minimum seven days if cooler) before full use.
- Generally both coats should be applied the same day.

Clean Up

- Although **Ectoflex 646™** is water soluble, it becomes tacky rather quickly. Using water, clean **Ectoflex 646™** immediately from adjacent areas where splashing or overrun has occurred.
- It is recommended that the work crew always keep a pail of water present so that tools can be immersed when not being utilized and cleaned immediately after use.

Care of Ectoflex 646™ Coating

- Cover the membrane to protect it from rain until the surface has cured for 6-12 hours after its application.
- Ensure that membrane is adequately protected from damage caused by puncturing.