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Ectoflex™ 646 & 4020 Specification 03/31/05

The application of Edco Technologies Ectoflex™ will vary according to the specifications of the project. It is recommended that until familiar with the product, Edco Technologies should be consulted before proceeding with developing specifications for the actual application.

Materials

- Ectoflex™ Polymer
- Ectoflex™ Powder

Reinforcing Mesh (when specified)

The Ectoflex™ pack comes pre-weighed and packaged for cold on-site mixing. Reinforcing mesh may be required: a polypropylene mesh is the most suitable due to its moderate elasticity.

Delivery, Storage and Protection

1. Only use Ectoflex™ products that are delivered to the site in original Ectoflex™ containers.
2. Ectoflex™ materials must be stored in a dry area protected from rain, standing water and moisture. Further, the products must not be allowed to freeze. Use all means necessary to protect the product from adverse conditions before, during and immediately after installation (until fully cured).

Project Conditions

1. The temperature of both the air and the substrate surface must be between +5°C (+41°F) & +32°C (90°F) before commencing the application of Ectoflex™. Further, the +5°C temperature must be maintained for a minimum of six hours after application.
2. Ectoflex™ is applied in two coats, the second coat to be applied after the first has dried approximately six hours. These layers must be protected from rain and water for at least six hours, for Ectoflex™ 4020 approximately two hours.

Surface Conditions

1. Carefully inspect all surfaces to be covered to ensure that they are sound, smooth and free from surface irregularities and foreign matter that will impair adhesion to the substrate.
2. If the surface is hard troweled or glazed, a light sand blasting will be required.
3. If surfaces are found to be unsuitable for the application of Ectoflex™, do not proceed with any work until such unsatisfactory conditions have been corrected.

Surface Preparation

1. Once the surface conditions are found to be acceptable, the substrate should be pressure washed at 3,000 psi or sufficiently cleaned to ensure that all surface latencies are removed (e.g. oil, grease, dirt, dust, etc.).
2. Ectoflex™ may be applied to damp surfaces, but standing and running water must not be present. The conditions must be such that the coating can dry thoroughly after the application of each coat.

Workmanship

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

Application

Ectoflex™ Primer

(Recommended for priming dry surfaces)

1. Empty the jug of Ectoflex™ polymer into a suitable container. Gradually mix in two entire bags of powder. **Ensure that the powder is added to the polymer and not the polymer into the powder.** Add a minimum 1 liter of water enough to make slurry consistency.
2. Mix for a minimum of three minutes with a heavy drill, 400 – 600 rpm and a Jiffler – 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 homogeneous lump-free compound is produced (Do not over mix, 5 minutes maximum).
3. This slurry mix must be rolled into the prepared surface. It can be sprayed and back rolled, but it must be worked into the surface.
4. If reinforce mesh is required it can be applied to this first slurry primer coat on flat surfaces. On vertical surfaces it should be applied into the first coat application.
5. It may be advantageous to accelerate the setting and drying of the primer coat by using a faster setting Ectoflex™ 4020 polymer.

Mixing Ectoflex™ First Coat

1. Empty the jug of Ectoflex™ polymer into a suitable container. Gradually mix in one entire bag of powder. **Ensure that the powder is added to the polymer and NOT the polymer into the powder.**
2. Mix for a minimum of three minutes with a heavy drill, 400 – 600 rpm and a Jiffler-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 (Do not over mix, 5 minutes maximum).
3. **“Do not”** add water, cement or solids to the mix.

Applying the First Coat of Ectoflex™

1. Application may be by roller or brush.
2. Apply Ectoflex™ to the dry primed areas. (The thickness of this application should not be less than 1 mm).
3. Let the first coat dry for a minimum of six hours (a minimum of four hours for Ectoflex™ 4020) or until surface cannot be scuffed.

Reinforcing Mesh

Reinforcing mesh is used to add tensile strength to Ectoflex™ and is applied over existing cracks and joints and abutments as well as right angles where vertical and horizontal surfaces connect. The most suitable mesh for use is polypropylene. For joints at footing and wall or other cold joints see: Data on Ectoflex™.

1. After the first coat of Ectoflex™ has been applied, immediately spread out the mesh over the wet surface. Embed the mesh into the surface, resulting in a uniform surface. The mesh does not have to be completely covered by the first coat.

Applying the Second coat of Ectoflex™

1. Again, application is by roller or brush.
2. After the first coat has dried for at least six hours apply the second coat at a minimum thickness of 1 mm. If mesh is applied make sure it is completely covered.
3. Let the second coat cure for at least five days at 20°C (70°F) before full use (Minimum seven days if cooler). Note: Three days at 20°C (70°F) for 4020.

Additional Coats

NOTE: Additional coats can be applied up to a thickness of 4 mm. Care must be taken to allow drying time between coats.

Clean Up

Although Ectoflex™ is water soluble, it becomes tacky rather quickly. Using water, clean Ectoflex™ 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 the Ectoflex™ Coating

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