

# Specifications for Installation of Concrete Sealer

## Part 1 : Scope

### Product and Application

This specification describes the application of an economical two part epoxy primer/sealer

#### 1.1 Acceptable Manufacturers

**ICO Primer LV or LVFC**, as manufactured by International Coatings of Franklin Park, IL or approved equivalent epoxy resin floor coating.

#### 1.2 Performance Criteria

1. Adhesion to damp or dry concrete

- >400 psi(concrete failure)

2. Viscosity(@70F)

- Maximum: 250 centipoise

3. % Solids

-100%

4. Chemical Resistance

-Must withstand chemical attack from following reagents for at least 7 days without deterioration: lubricating oils, brake fluids, gasoline, jet fuels, 37% hydrochloric acid, 50% sulfuric acid, 50% sodium hydroxide, 10% chlorine solutions

#### 1.3 Material Specifications

1. Component "A" shall be an epoxy resin of the epichlorohydrin bisphenol A type with special additives for enhanced damp adhesion.
2. Component "B" shall be a blend of cycloaliphatic amines with non- blushing characteristics.
3. All material shall be solvent-free.
4. Material shall be available in a fast cure ("FC") version for applications down to 40°F.

#### 1.4 Surface Preparation

All new concrete surfaces that will be covered with the systems specified herein should have received a steel trowel, light broom finish and shall be free of all form release agents, curing agents or sealer applications. Concrete shall have cured a minimum of 28 days. If this is not practical, then consult manufacturer for recommended procedures.

**A. General**

1. The moisture vapor transmission rate of any slab-on-grade shall be checked using a calcium chloride test kit. The measured vapor transmission rate shall not exceed 5 pounds. Consult manufacturer for further directions.
2. Remove any oil or grease spots with appropriate degreaser, followed by pressure washing.
3. All new or old concrete should be lightly shot blast to obtain minimum 40-60 grit profile.
4. Patch any holes > 1/2" in depth with **ICO Patch** three-part epoxy patch material or with **ICO Gel** epoxy paste for smaller holes

**1.5 Material Application**

1. Mix **ICO Primer LV Parts A and B** in the specified prescribed amounts using a low speed (<750 rpm) jiffy-style mixer for 30- 60 seconds
2. Immediately pour contents out onto the floor in a ribbon pattern and spread with a flat squeegee, followed by back rolling with a fine (1/4") nap roller. Coverage rate: 200-250SF/gallon(yielding 6-8 mils) depending on porosity of concrete. Allow to dry. Note: for ramps, broadcast in 30-40 mesh grit to enhance traction.
3. Apply a second coat of **ICO Sealer** clear epoxy sealer at about 160-200SF/gallon(8-10 mils).

**1.6 Protection of Finished Work**

1. Prohibit foot traffic on floor for 24 hours after laying (at 70°F). At 50°F, this time should be extended to 48 hours.
2. Rinse off any chemicals that may come in contact with the freshly laid (for first 7 days) floor immediately.

**1.7 Cleanup**

- A. Dispose of all unused and waste materials.
- B. Tools can be washed in warm, soapy water when wet, but after drying, can only be cleaned by grinding or with a paint stripper.
- C. Unused resin can be set off with proper amount of hardener and disposed of in regular trash bins.

**1.8 Warranty**

- Installer shall provide a three year warranty against chemical attack, normal wear and tear and loss of adhesion.