

# Specifications for Installing Elastomeric Expansion Joint Material in Seamless Flooring

## Part 1 : Scope

### Product and Application

This specification describes the application of a two part epoxy-modified urethane sealant in expansion joints by trowelling, pouring or gunning in with caulk cartridges.

#### 1.1 Acceptable Manufacturers

ICO Lastic (or ICO Lastic Gun Grade), as manufactured by International Coatings of Franklin Park, IL or approved modified epoxy-urethane sealant.

#### 1.2 Performance Criteria

1. Tensile Strength (ASTM D-638)
  - Minimum : 1480 psi
2. Tensile Elongation (ASTM D-638)
  - Minimum : 140%
3. Tensile Elongation, Gun Grade (ASTM D-638)
  - Minimum : 100%
4. Bond Strength to Concrete
  - : >400 psi (Concrete fails)
5. Rebound Resiliency
  - : 30%
6. Hardness Shore A
  - Maximum : 80
7. Water Absorption
  - Maximum : 2% after 7 days
8. 9 % Solids
  - : 100%
9. Chemical Resistance: must withstand up to 72 hours immersion in following chemicals: 20% lactic acid, 20% sulfuric acid, 10% sodium hypochlorite, vinegar, citric acid, 50% sodium hydroxide.

#### 1.3 Materials

1. Component "A" shall be a blocked urethane prepolymer.
2. Component "B" shall be a polyamine epoxy hardner.
3. Product shall contain no solvents.
4. Material shall be a resin-rich mixture not requiring any sealer or top coat.

#### 1.4 Surface Preparation

1. Cut back and/or remove any joint backing or filler strips to a minimum 11/2" depth.
2. Insert disposable filler in the joints to prevent filling with the overlayment material and to allow for accurate location of final sawcuts in the overlayment

## **1.5 Material Application**

1. After the overlayment has cured, remove the disposable joint filler from the expansion joints by sawcutting the overlayment above all expansion joints exposing the fill width and length.
2. Insert closed cell backer rod, using a large enough diameter to provide a 30% compression. The joint backing should be forced down into the joint to a depth equal to one half the width.
3. Mix parts A and B for at least 30-60 seconds with a low speed, jiffy-style mixer (<750 rpm), or until totally uniform. Pour the liquid into the joint until flush with surface.
  - A. (Optional "Gun Grade Application") Mix Part A and B as above and trowel into the joint with a margin trowel, tooling the bead to insure full and complete contact with the edges and bottom. Finish bead should be neatly aligned with the sawcut joint edge with no gaps, strings or air bubbles.

## **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. Heavy vehicular traffic should be kept off for 48 hours at 70° F.

## **1.7 Cleanup**

- A. Dispose of all unused and waste materials.
- B. Tools can be washed with toluene, xylene or MEK if still wet. Once dry, cleanup can be accomplished with a paint stripper.

## **1.8 Warranty**

- Installer shall provide a one year warranty against delamination, and chemical attack (to those chemicals listed in the accompanying product data sheet).