# #1001 - HORIZONTAL CRACK REPAIR APPLICATION GUIDELINES

**GENERAL PREPARATION**

1. Crack to be repaired should be dry and free of debris, oils or contaminants.
2. Blow out crack with compressed air.
3. Remove any loose or broken pieces of concrete and saw cut spalled edges to a minimum ¼" depth to eliminate feather edges for patching.
4. For suspended deck repair wire brush the underside and surface seal the underside of the crack to prevent drainage of the epoxy.
5. Seal off any intersecting expansion joints to prevent epoxy from seeping into joint.
6. For hairline cracks saw cut or "V" goove a minimum ¼" deep groove to act as a reservoir for filling the epoxy resin.
7. For slab on grade cracks 1/8" width or larger pre-filling the crack to ½ the depth of the crack with dry silica sand will aid in controlling loss or seepage of the epoxy beneath the slab.

**CRACK WIDTHS**

1. Cracks hairline to 1/16" use #1001 LV
2. Cracks 1/16" to 3/16" use #1001 MV.
3. Cracks 3/16" to ¼" use #1001 HV.
4. Cracks larger than ¼" should be repaired using dry sand filler and #1001 LV. (See large crack repair)

**MIXING INSTRUCTIONS**

1. Mix #1001 at a 2:1 ratio – 2 parts of A Resin to 1 part B Hardener. Mix only enough that can be applied in 20 minutes. Stir by hand or with a slow speed drill for 2-3 minutes. Scrape the sides and bottom of mixing container to ensure full blending of both components.

**GRAVITY FEED CRACK REPAIR**

1. Slowly fill the crack with resin until full to surface.
2. Refill the crack as needed to maintain resin level with crack surface until the resin sets.

**LARGE CRACK REPAIR**

1. Pre-fill the crack to ½ the depth with dry silica sand.
2. Mix a small portion of #1001 LV epoxy and pour into the entire length of crack. Allow initial pour or epoxy to saturate into the sand and set up. This will provide a seal at the bottom of the crack and allow for complete filling without excessive loss or drainage of epoxy underneath the slab.
3. After initial epoxy has set, refill the crack as needed to maintain resin level with crack surface until the resin sets

**SPALL REPAIR.**

1. Saw cut any feather edges to a minimum ¼" depth or equal to maximum depth of spall.
2. Brush a thin coat of mixed epoxy to surface of spall.
3. Blend 1 part of mixed #1001 epoxy with 3 parts sand. (*example* - 1 gallon of mixed epoxy with 3 gallons of sand)
4. Fill hole with mixture and trowel smooth.
5. Additional sand can be added to mix to desired consistency.
6. Sprinkle dry sand on surface of repair for cosmetic or non-skid properties.

Consult the #1001 product data sheet for additional information or contact Polygem, Inc. at (630) 231-5600 for technical assistance.