



*Concrete Oasis is a division of Bernardine Construction Co.*

Bernardine Construcion Co.  
1 Crumley Avenue  
Malvern, PA 19355

610-889-9699

## **BERNARDINE CONSTRUCTION CO. CRACK CONTROL SPECS & WARRANTY**

BCC installs concrete flatwork in accordance with the American Concrete Institute guidelines that are recognized as the industry standards. The owner of BCC, Jim Bernardine, is a certified ACI Concrete Flatwork Technician. Professional Concrete service crews closely follow the recommended practices set forth by the American Concrete Institute for the installation of quality flatwork.

In addition to using low slump certified Silvi Concrete on a mechanically compacted sub grade and placing expansion joints materials against all hard surfaces, BCC reinforces all its concrete with rebar and fiber. The colored and/or stamped work also receives two coats of quality UV resistant and slip resistant sealer.

Freshly placed concrete can be expected to crack (known as shrink cracks) within the first few days of placement. Shrink cracks are narrow hairline stress cracks in the surface of the concrete caused by the curing process. Reinforcing steel and fiber along with low slump concrete minimize the number and width of shrink cracks. Control joints (saw cuts, or hand grooved joints) encourage the concrete to relieve the stress along the predetermined lines made the day of or after the placement. Control joints are a choice not a requirement. The concrete will perform well with or without control joints. Control joints do not prevent shrink cracks, but they may help hide them.

Control joints are much more noticeable in the more irregular stamp patterns like Random Stone, or European Fan, and less noticeable in grid type patterns like 24" Slate. Some owners choose not to have control joints because narrow cracks are less conspicuous. Control joints do not effect the durability of the concrete, only the esthetics.

### **WARRANTY**

BCC warrants that any cracking in excess of 1/8" resulting from poor workmanship or use of sub-standard materials, shall be repaired or replaced. BCC makes no claim that hairline cracks might not develop, but insures that every precaution is taken to minimize their occurrence by using approved methods and quality materials. It is acknowledged that color differences may result for repairs.

Acknowledged

By \_\_\_\_\_ Date \_\_\_\_\_

Respectfully,  
Jim Bernardine \_\_\_\_\_ Date \_\_\_\_\_