

**Cretex Pro-Ring™ Installation Instructions/Brick Manholes**



1. Clean the surface of the manhole to be sure no loose materials or debris is left behind. Use a chipping hammer or chisel and whisk broom.



2. Measure the distance from the top of the manhole to the final elevation, subtract the height of the casting and select the rings.



3. If the brick surface on top of the manhole is irregular, place a thick bed of non-shrink mortar or grout on the surface and rough in.



4. Position the first Grade Ring by embedding it directly into the mortar. Center the ring and make sure that it is level.



5. Dry stack the selected rings and verify the measurements to ensure the desired elevation has been attained. Apply paint alignment mark.



6. Apply a 1/4" bead of M-1 adhesive to each of the tongues. Position the next Grade Ring with the grooves down onto the first Grade Ring.





7. If multiple Grade Rings are required, repeat step 6 until all Grade Rings have been properly installed and then proceed to step 8.



8. Apply M-1 as before to each of the tongues and position the Finish Ring with the grooves down onto the Grade Ring.



9. For Angle Rings, place a ¼" bead of M-1 into the groove on the underside of the Angle Ring and to the inside shoulder of the Finish Ring.



10. Place the Angle Ring onto the Finish Ring with the adhesive facing down, making sure to align with the previously applied paint mark.



11. Place two ½" beads of M-1 adhesive on the top surface of the Finish or Angle Ring prior to setting the manhole frame casting.



12. Install and center the manhole frame casting. With installation complete, backfilling and paving may proceed immediately.



**Cretex PRO-RING™ Installation Instructions/Precast Manholes**



1. Clean the surface of the manhole to be sure no loose material or debris is left behind. Use a chipping hammer or chisel and whisk broom.



2. Measure the distance from the top of the manhole to the final elevation, subtract the height of the casting and select the rings.



3. Repair any manhole surface defects using a non-shrink repair mortar or grout making sure the surface is level to prevent point loading.



4. Dry stack the selected rings and verify the measurements to ensure the desired elevation has been attained.



5. If Angle Rings are used, a paint mark should be made on the rings during dry fit to ensure proper position once installed with adhesive.



6. Fill both grooves in underside of Grade Ring with M-1 adhesive. Flip the ring with adhesive down onto manhole, making sure it is centered.





**7. Apply a ¼" to ½" bead of M-1 adhesive to the groove and to the outer glue trench of the next Grade Ring or proceed to step 8 for Finish Ring**



**8. Apply M-1 as before to each groove on the underside of the Finish Ring and position with the grooves down onto the Grade Ring.**



**9. For Angle Rings, place a ¼" bead of M-1 into the groove on the underside of the Angle Ring and to the inside shoulder of the Finish Ring.**



**10. Place the Angle Ring onto the Finish Ring with the adhesive facing down, making sure to align with any previously applied marks.**



**11. Place two ½" beads of M-1 adhesive on the top surface of the Finish or Angle Ring prior to setting the manhole frame casting.**



**12. Install and center the manhole frame casting. With installation complete, backfilling and paving may proceed immediately.**