



MANHOLE REPAIR with CONCRETE MIX

SUMMARY INSTRUCTIONS:

1. Sound concrete with a good profile
2. Minimum 50mm repair thickness
3. Clean concrete
4. Saturated, Surface Dry (SSD) concrete
5. Mix per instructions on product
6. Press material firmly into place
7. Finish quickly
8. Wet cure for 1 hour or until final set, whichever is longer
9. Clean equipment and surrounding area immediately
10. See Full Instructions below for details

FULL INSTRUCTIONS:

SURFACE PREPARATION:

1. Remove a minimum of 1.59mm from the application surface.
2. Concrete must be free of materials such as paint, oil, curing compound, bond breaker, or any material that will inhibit bonding. Mechanically remove loose, unsound, contaminated concrete.
3. The perimeter of the area to be repaired shall be sawcut or chipped perpendicular to the surface to a minimum depth of 50mm. Do NOT cut or damage reinforcing steel.
4. Clean reinforcing steel by sandblasting or other mechanical means to achieve a white metal finish.
5. Thoroughly clean extraneous material such as dirt, loose chips, and dust from concrete surface. If compressed air is used, it shall be free of oil.
6. Concrete surface shall be saturated with potable water. Standing water shall be removed from surface to achieve a saturated-surface-dry (SSD) condition.

MIXING:

1. Organize personnel and equipment before mixing.
2. See product package for amount of water to use.
3. Follow manufacturer's recommendations for mixing in cold or hot conditions. The mixed temperature may be controlled by protecting the bags of repair material from temperature extremes and using hot or cold mix water.
4. Add water to the mixing container. While mixing with a power driven mechanical mixer, such as a mortar mixer or a drill mounted mixer, add repair material.
5. Mix for 1 to 3 minutes to achieve a uniform, lump-free consistency.
6. Do NOT re-temper.

PLACEMENT:

1. Place repair material immediately after mixing.
2. Place repair material only if surface and ambient temperatures are above 7°C and rising.
3. Place the mixed repair material on the saturated-surface-dry (SSD) substrate.
4. Work the mixed repair material firmly into all application surfaces to achieve good bond. Consolidate to remove air voids.
5. Do NOT wait for bleed water. Apply final finish as soon as possible.

CURING:

1. Begin water cure when repair area begins to lose its moist sheen and keep continuously wet for 1 hour or until final set, whichever is longer.

CLEAN UP:

1. Maintain a clean, orderly work area.
2. Clean excess material from surrounding areas and equipment immediately.
3. Protect adjacent surfaces that may be damaged by cement mixture with drop cloths, waterproof paper, or other means to maintain surfaces free of material splashes, water, and debris.