

Utilibond™ is specially formulated for permanently reinstating excavated cores in asphalt, asphalt and concrete and concrete road systems and sidewalks and other paved surfaces. The rapid hydration and fast strength gain of this product allows the roadway to be reopened within 30 minutes at 70°F / 21°C.

However, sometimes cores will need to be reinstated when the ambient temperatures are well above 70°F.

Utilicor deems hot weather to be temperatures when the day time highs exceed 80°F and extreme hot weather to be above 100°F. When reinstating cores in these hot or extreme hot weather temperatures certain procedures will help crews attain a proper core reinstatement. Failure to follow these instructions may result in improper or poor reinstatements.

Utilibond™ permanent pavement bonding compound is designed to be mixed with a precise amount of water to the proportion of Utilibond powder. **This ratio should be maintained even in extreme hot weather conditions.** However due to variations found in field conditions a small amount of additional water may be required to allow the Utilibond™ to reach its proper flow rate for core reinstatement. Up to an additional 50ml (2 TBSP) of water per 10 kg (22 lbs) of Utilibond powder may be added should the flow rate is too thick after initial mixing of 90 seconds.

In the case of hot weather and extreme hot weather conditions the following tips will allow for additional working time during the process of reinstating the core, and improve core reinstatement results.



- **Start with cold water to mix the Utilibond and keep Utilibond powder in a cool place.** As one litre of water is required for a 22 lbs. pail of Utilibond, filling a potable water container with cold tap water before leaving the yard and storing it in the air conditioned cab of a work truck on site until mixing is needed will help to inhibit the set up time of the Utilibond. Also make sure the Utilibond powder is kept in a climate controlled environment if possible.



- **Reduce overall mixing time.** Utilicor suggests a three minute mix time at temperatures of 70°F or lower. At lower temperatures longer mixing times will help to accelerate the setting times for the product. However, in hot weather conditions we recommend reducing this time to 1 ½ minutes, or once the Utilibond™ is mixed through and is lump free, with a flow consistency of pancake batter,



- **Use water.** Before reinstatement of the core, dampen with water all portions of the cored roadway and core with a sponge. This will allow the Utilibond to flow better in hot weather situations and aid in the Utilibond curing process. Because Utilibond is exothermic (creates heat) the addition of water to the sides of the cored hole and the core will slow this process enough to allow the Utilibond to flow during the reinstatement process and will encourage a better bond between the Utilibond and the pavement.



- **Keep it wet.** By using a wet soft bristled brush you can “paint” the top of the kerf line and the center pilot hole area with cold water – this will help the Utilibond™ set up slower and reduce premature hydration of the Utilibond. Spray the kerf and the center pilot hole with Utilicure in extreme hot weather circumstances.



- **Keep the cores cool.** In extreme hot and sunny days the asphalt cores can literally “melt” if left unprotected at the side of the road with the sun beating down on them. An asphalt core will also have the tendency to expand, or “mushroom” due to excessive heat when left in the sun. We recommend storage of cores for short durations in the shade and if possible covered with wet burlap. For longer durations they should be carefully moved to an inside warehouse location. Do not leave the core puller in the core. Once the core has been removed from the roadway it is imperative that the Utilicor puller be extracted from the center of the cut core - if it is left in the core in tightened position it may cause the core to split.