

# Potable Water Reservoirs

Ehlanzeni, Mpumalanga, South Africa

PRODUCTS USED:

**Krytol® Leak Repair System**    **Krytol Bari-Cote™**

## CLIENT:

Masetlaoka Scott Wilson (Pty.) Ltd.

## DISTRIBUTOR:

Sanika Waterproofing Specialists

## BACKGROUND

Water in Mpumalanga, South Africa, is highly valued, making the newly constructed potable water reservoirs in the Acornhoek and Bushbuckridge areas a vital resource for the people living there. However, according to flood tests that were done, these reservoirs were experiencing leaks in their joints, cold joints, and tie holes. To permanently resolve this waterproofing issue, a complete, watertight waterproofing system that would be safe for potable water was required.

As the civil, water, and consulting engineers for the Department of Water Affairs (which is now known as the Department of Water and Sanitation), Masetlaoka Scott Wilson (Pty.) Ltd. knew they needed professional waterproofing done to get that watertight system and chose to contract Sanika Waterproofing Specialists for help. With the help of the Kryton-authorized distributor, Masetlaoka Scott Wilson (Pty.) Ltd. decided to apply Kryton's Krytol Leak Repair System, which consists of the Krytol Plug™, Krytol Repair Grout™, and Krytol T1®. They also decided to apply Krytol Bari-Cote. Forming a complete waterproofing system, both the Krytol Leak Repair System and Krytol Bari-Cote would render the reservoirs fully waterproof. They would also ensure the reservoirs remained safe to potable water as Kryton's Krytol® solutions have no volatile organic compounds and are certified by the NSF for safe contact with potable water.

## SOLUTION

Sanika Waterproofing Specialists got to work right away applying the Krytol Leak Repair System and Krytol Bari-Cote to the negative side of the reservoirs while they were still filled and in operation. They chiseled chases in the leaking areas. Then, they added the Krytol Plug to stop the flow of water with its rapid-setting hydraulic cement. Over top of that, they applied Krytol Repair Grout, which uses Krytol technology to chemically react with unhydrated cement particles and water to create crystals that fill up any potential pathways for water, further preventing leaks from continuing. After this stopped the active leaking, Sanika Waterproofing Specialists covered the repaired areas and elsewhere with a Krytol T1 and Krytol Bari-Cote coating, which uses Krytol technology for extra protection and to provide permanent waterproofing.

Because of this effort, the reservoirs were commissioned for use once more and had no leaks, ensuring they could supply water, a precious resource, to Mpumalanga residents.

