

# TCRC Case Study: Durdham Down Water Tower



## Roof Structure Protected as Part of Major Refurbishment Scheme

Durdham Down Water Tower was constructed in 1954 and is a twelve-sided reinforced concrete structure. With a total storage capacity of 2.73m litres, it supplies valuable potable water to the local community.

The existing roof had asphalt lined gutters and had been repaired with various liquid products over the years. The scope of works for this project included the installation of a new high performance liquid waterproofing system to both the main roof structure and the treads of the internal concrete steps.

### BBA Approved Liquid Waterproofing Solution

Triflex ProTect® cold applied liquid waterproofing was specified as the chosen solution. With both BBA, ETA and FLL certification, Triflex ProTect® offers long-lasting, reliable protection and is supported by a 20 year insurance-backed guarantee. It is also suitable for use on zero pitch roofs and provides exceptional fire-resistant properties.

Initially, a grinder was used to remove any de-bonded materials or incompatible coatings from surfaces which were to be overlaid. The substrate was then cleaned and primed before applying the Triflex ProTect® System. In detail areas such as upstands and protrusions, Triflex ProDetail and Triflex ProFibre were incorporated into the system to provide additional strength and dimensional stability. Finally, a specially selected quartz aggregate was embedded into the coating on designated walkway areas to provide the specified anti-skid properties.

In addition to the main roof area, TCRC also installed the Triflex waterproofing system to the treads of 75 steps within the inner stairwell area, including a special yellow colour to each of the nosings.

**Project:** Durdham Down Water Tower

**Location:** Clifton Downs, Bristol

**Client:** Bristol Water

**Products:** Triflex ProTect® Liquid Waterproofing System

