PROTECTING AND DETERRING ACCESS TO UNDERGROUND NETWORKS
PREVENT THEFT AND INTRUSION

SEAL™ is our latest innovation to restrict unauthorised access to underground networks, preventing intrusion and theft of critical infrastructure.

- Protects your service delivery
- Reduces the threat of costly theft-related repair bills
- Quick and easy to install
- Can be fitted by a lone worker operating entirely above-ground in under 10 minutes
- Training provided by SmartWater®
- Contains forensically coded SmartGel™
- Easily re-deployed from location to location
- Longstanding proven method of deterring and detecting criminal activity.

BAG AND BRACE

SEAL acts as both a physical barrier that blocks access to underground infrastructure and a psychological threat to criminals, increasing their risk of being caught and irrefutably linked to the crime scene. It consists of two key components;

1. An extendable steel brace, which is fitted first to prevent intrusion.
2. A bespoke, mouldable bag which goes on top of the brace, and contains our forensically coded SmartGel to link the criminal to the exact crime location. The bag is custom-made in the UK to fit almost any shape or size required*. Once in place, air is removed from the bag using a hand pump, forming a tight vacuum seal.

*The SEAL brace, however, has limited operating dimensions. Requests that fall outside of these dimensions, may require further development and thus result in an increase lead time and/or price.

"A KEY BENEFIT OF SEAL TO OPENREACH IS THAT WE CAN RAPIDLY DEPLOY IT INTO THE NETWORK AT A MOMENT’S NOTICE. IF WE KNOW THERE’S A POTENTIAL THREAT WE CAN IMMEDIATELY SEAL THAT PART OF THE NETWORK, THEREBY SIGNIFICANTLY REDUCING THE LIKELIHOOD OF A CRIMINAL ATTACK."

Bernie Auguste, General Manager Security Services
Openreach (A BT Group Business)
A PROVEN DETERRENT

SEAL will act as a longstanding and powerful criminal deterrent due to the known threat SmartWater poses to the criminal fraternity.

Criminals actively avoid targeting locations where the SmartWater brand is displayed, because:

- Our brand is known to criminals, who fear its forensic properties and ability to link them to a crime scene
- SmartWater has directly contributed to the conviction of hundreds of criminals and maintains a 100% conviction rate in court
- The police are equipped with UV lighting and are actively searching for SmartWater
- SmartWater was the first traceable liquid to hold BSI PAS 820:2012 Grade A External specification which is guaranteed to last for a minimum of 5 years outdoors, giving you long-term protection.

FORENSIC TECHNOLOGY

In the unlikely event of a criminal attack on SEAL, the bag containing our patented SmartGel will rupture, covering tools, clothes and hands in our uniquely-coded forensic gel.

Any traces of SmartGel will glow brightly under UV light, providing a unique forensic link between the criminal and the crime scene, which can then be used by police to help convict the offender. The gel will remain on skin and hair for many weeks and is virtually impossible to remove from clothing, footwear and tools.

Should the offender persist and eventually succeed in removing the bag, they will find the steel brace waiting underneath, preventing any further access.

www.smartwater.com
WHAT’S IN THE BOX

SEAL™

Mouldable Bag  Extendable Brace  SmartGel™ Insert

INSTALLATION KIT

Brace lowering frame & locking key  Hand pump  Installation Instructions

HOW DOES IT WORK

1 SEAL extendable steel brace is lowered into the exposed manhole.

2 The brace’s retractable arm is extended and tightened, blocking intrusion.

3 SEAL mouldable bag, containing forensically coded SmartWater SmartGel™ unique to the location, is placed on top of the secured brace.

4 Air is removed from the bag using a hand pump, moulding the bag around the manhole and creating a tight vacuum seal.

5 Underground infrastructure is now protected.

APPLICATIONS & BENEFITS

• Theft and malicious damage; acts as a barrier between the criminal and valuable below-ground assets.

• Intrusion and trespass; denies unauthorised access to subterranean passageways such as sewers and vents.

• Health and safety; should a manhole cover be removed illegally, SEAL can act as a temporary measure to reduce the risk of injury to members of the public whilst a replacement manhole cover is sourced*

• Counter-terrorism; helps to secure locations for high-profile events and gatherings.

*The SEAL brace has been tested to support a maximum load of 50kg on a temporary basis only - when correctly installed under ideal conditions in accordance with the Installation Instructions. Please note that any chemicals, oil greases, moisture, algae or residue on manhole walls may reduce the ability of the brace to grip the manhole walls. Likewise vibration and friable supporting walls may affect brace location.

Contact us for more information about SEAL:
Call +44 (0)333 320 7797 or email enquiry@smartwater.com

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