Wavin OsmaDrain

Featuring...

ROOT SEAL
Technology

Look deeper into the pipe system that actively repels tree roots.

wavin

Rooted in innovation

Proven to be beneficial for people, cities and the wider environment, trees are becoming a significant part of urban planning. Whilst best-practice construction dictates that drains aren't located in the vicinity of trees, reality dictates that they often do need to coexist around homes.

Seeking sustainable innovation across the entire product portfolio, Wavin has developed RootSeal Technology to solve two real challenges for architects, specifiers, developers and planners.

Firstly, it is a fact that root ingress is a key cause of blocked drains. Secondly, climate change and drier summers are forcing tree roots to look further for water and survival, increasing the likelihood of roots and pipe seals meeting.

RootSeal Technology helps future-proof drainage systems by using a naturally sourced inhibitor to harmlessly repel tree roots, reducing damage, upheaval and considerable costs – both financial and environmental.

The fact that RootSeal is also now a no-cost addition to what is already the market-leading foul water drainage system is a win-win for everyone, delivering added protection with no added cost.

Here at Wavin, we are determined that our corporate commitment to building healthy, sustainable environments actually feeds into tangible product innovation and change. RootSeal Technology illustrates that, bringing real performance and sustainability benefits.

Mike Ward,
Territory Director –
UK & Ireland

ROOT SEAL
Technology

Enabling trees and pipes to coexist

More and more trees are being planted as a natural line of defence against warming cities and to enhance residential areas and our collective wellbeing.

In a residential setting trees have to fight compacted soil and the climate change challenges of more heat and less water to grow – driving roots to hunt harder for water and nutrients.

Below ground this is increasing the interaction between tree roots and pipes – frequently drainage systems that carry the very thing the tree is seeking to survive: water, air and bionutrients.

In pipe systems, the most likely point of entry is at the joints. If the roots' fine fibres do manage to penetrate the seal and are left unchecked, they can expand and extend causing blockages and the leaching of effluent into the surrounding soil.

It is this challenge that RootSeal Technology addresses: building an effective inhibitor into the pipe seal itself to repel roots, inhibit ingress and leave both the pipe and tree undamaged.

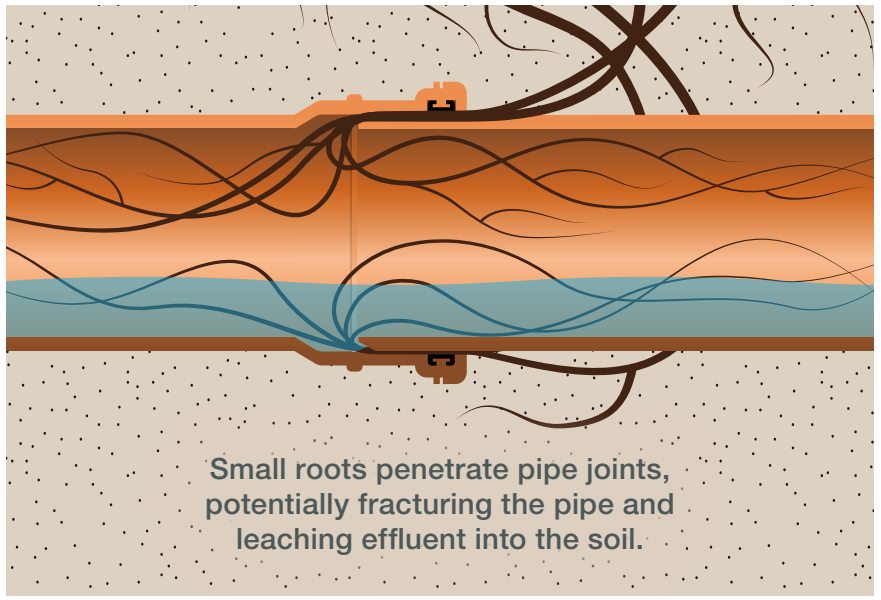
Protection signed, sealed and delivered

RootSeal Technology helps to maintain the performance of drainage systems created with Wavin OsmaDrain. Additional protection that comes with no additional outlay. Because we want as many people as possible to enjoy its benefits, RootSeal is now included as a no-cost addition across the Wavin OsmaDrain range. There is no premium pricing, just premium performance.

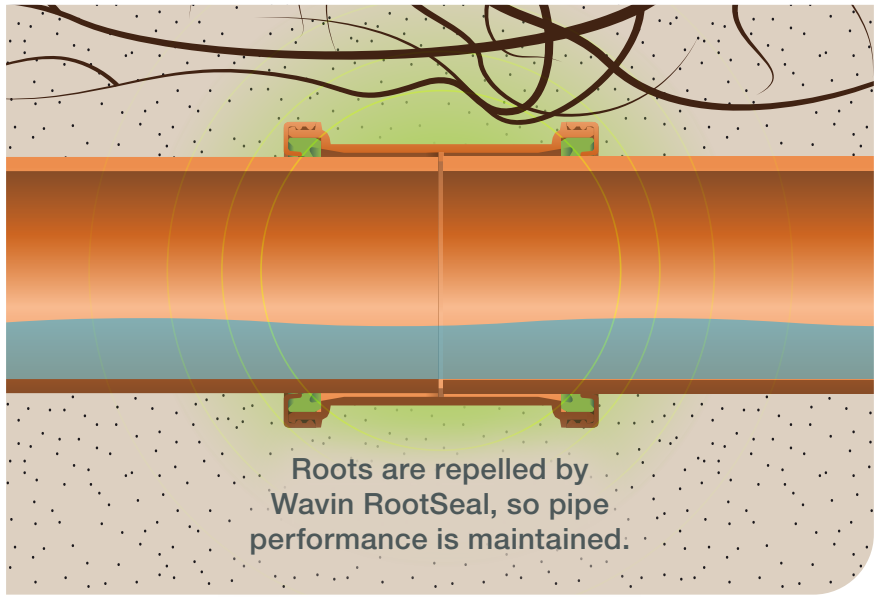
And that is only half of the RootSeal win-win equation. By repelling tree roots, RootSeal can stop a domino effect of problems before they start.

With a key cause of blockages avoided, remedial action is avoided too. So there is no widespread disruption and upheaval. No environmental cost of pulling up trees, removing earth and delivering materials to carry out costly repairs and replacements. And there is no leaking of raw sewage into surrounding soils from pipe breakages.

For your next project, specify the drainage system with the green seal – it's the real deal.



Small roots penetrate pipe joints, potentially fracturing the pipe and leaching effluent into the soil.



Roots are repelled by Wavin RootSeal, so pipe performance is maintained.

Real innovation. Real benefits.

Actively inhibits root ingress and any leaching from damaged pipe seals.

Environmentally safe, with no damage to the surrounding soil, trees or wildlife.

Can extend drainage system life and safeguards optimum performance.

A no-cost enhancement to the market-leading foul water drainage system.

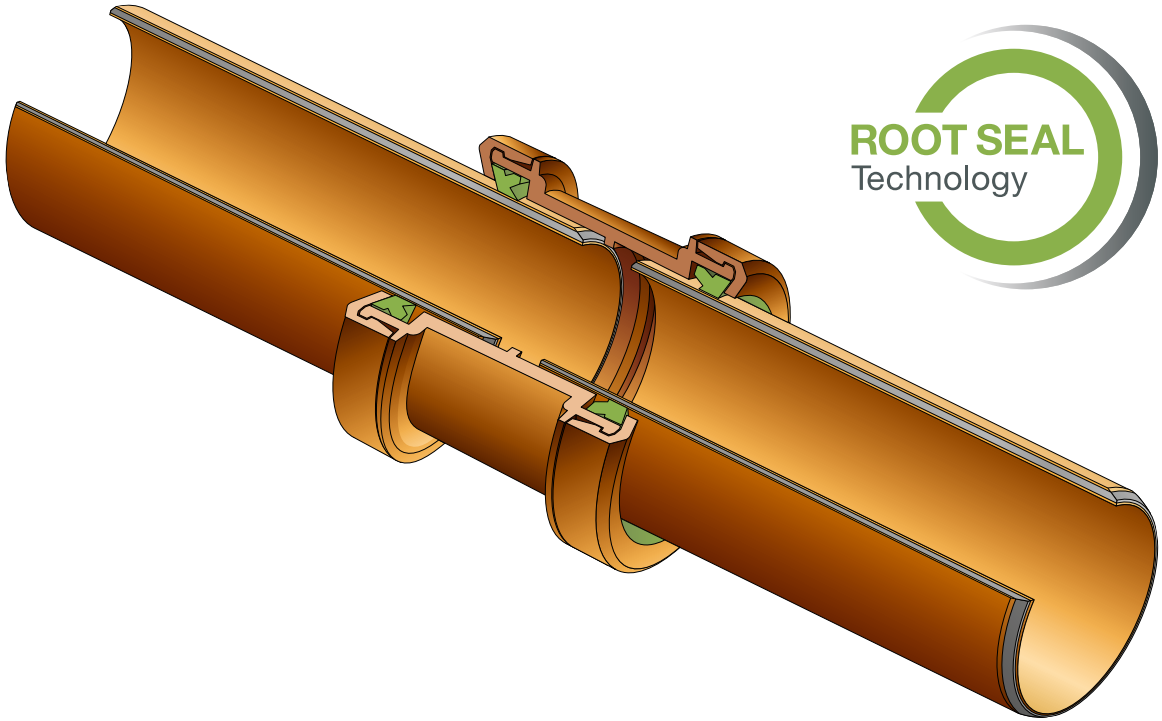
Mitigates the cost, upheaval and environmental impact of repairs and replacements caused by root damage.

Scientifically developed, tested and proven to be effective.

The best, made better

With no added cost, RootSeal Technology further enhances what is already the market-leading foul water drainage system.

The range includes a comprehensive array of standard components, together with specialised fittings such as fully roddable bottle gullies. Wavin OsmaDrain has a stiffness class of SN8, which makes it suitable for adoptable and non-adoptable situations.



ROOT SEAL Technology

Material

a) Pipes and Fittings

All pipe and most fittings are manufactured from unplasticized polyvinyl chloride (PVC-U). Polypropylene is used for Adjustable Bends and other ancillary components. Polyethylene is used for the range of Yard Gullies.

b) Sealing Rings

The OsmaDrain co-injection, snap-cap and sealing ring concept are made from a combination of: Snap-Cap Polypropylene and Sealing Ring TPE. Where applicable, OsmaDrain 110mm and 160mm sockets are supplied complete with a captive ring seal.

Standards

A British Standards Institution

The OsmaDrain below ground drainage system complies where applicable with the requirements of the following British standards:

BS EN 1401 Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized polyvinyl chloride (PVC-U) – Part 1: Specifications for pipes, fittings and the system.

BS EN 13476-2 Plastics piping systems for non-pressure underground drainage and sewerage – PVC-U.

BS4660:1989/2000 Unplasticized polyvinyl chloride (PVC-U) pipes and plastic fittings of nominal size 110mm and 160mm for below ground gravity drainage and sewerage.

British Board of Agrément

The OsmaDrain system has been awarded the following British Board Agrément certificate. 87/1835 OsmaDrain Underground Drainage.

Acceptance

OsmaDrain systems are included in the following publication:- Sewers for Adoption, 6th, 6A and 7th Editions, under clause 5.2.21 and 5.2.22.

Meets with the requirements of Ofwat's Design and Construction Guidance (DCG) April 2020.

Integrated seal

Wavin OsmaDrain features a combined cap and ‘captive’ seal. This ensures the seal cannot be dislodged in transit, storage or installation. It is moulded into the fabric of the fitting.

Look for the green seal.

Learn more about Wavin OsmaDrain with RootSeal Technology

Call: 0800 038 0088

Or visit: wavin.co.uk/rootseal

Sustainability made more than a pipe dream

See how we are making the sustainable attainable with real actions, real outcomes and real ambition.

wavin.co.uk/sustainability

orbia
Advancing life together

Wavin is part of Orbia, a community of companies working together to tackle some of the world's most complex challenges. We are bound by a common purpose: To Advance Life Around the World.

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