



WATERPROOFING

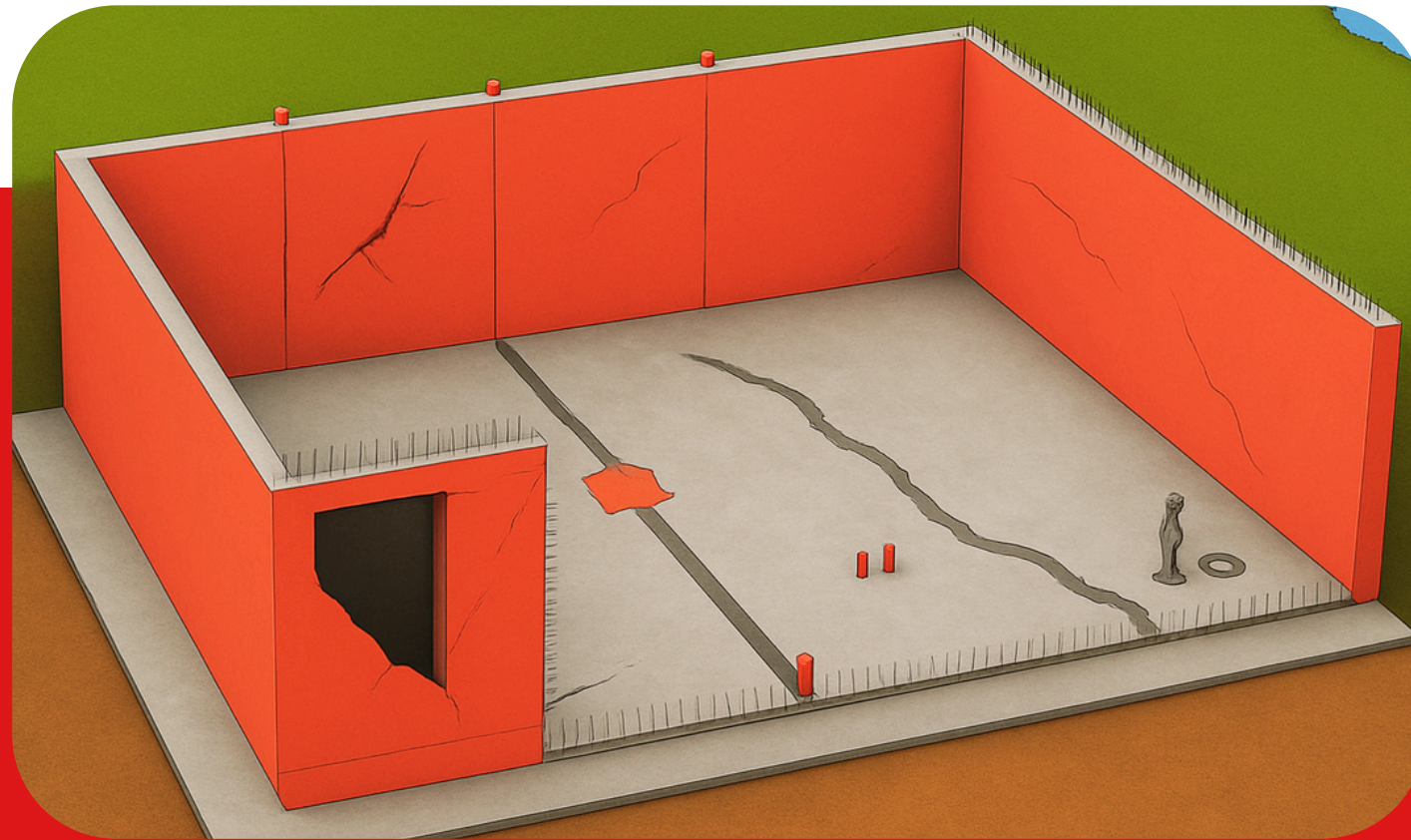
PC-WC Solution

**FOR
BASEMENT
RENOVATION**



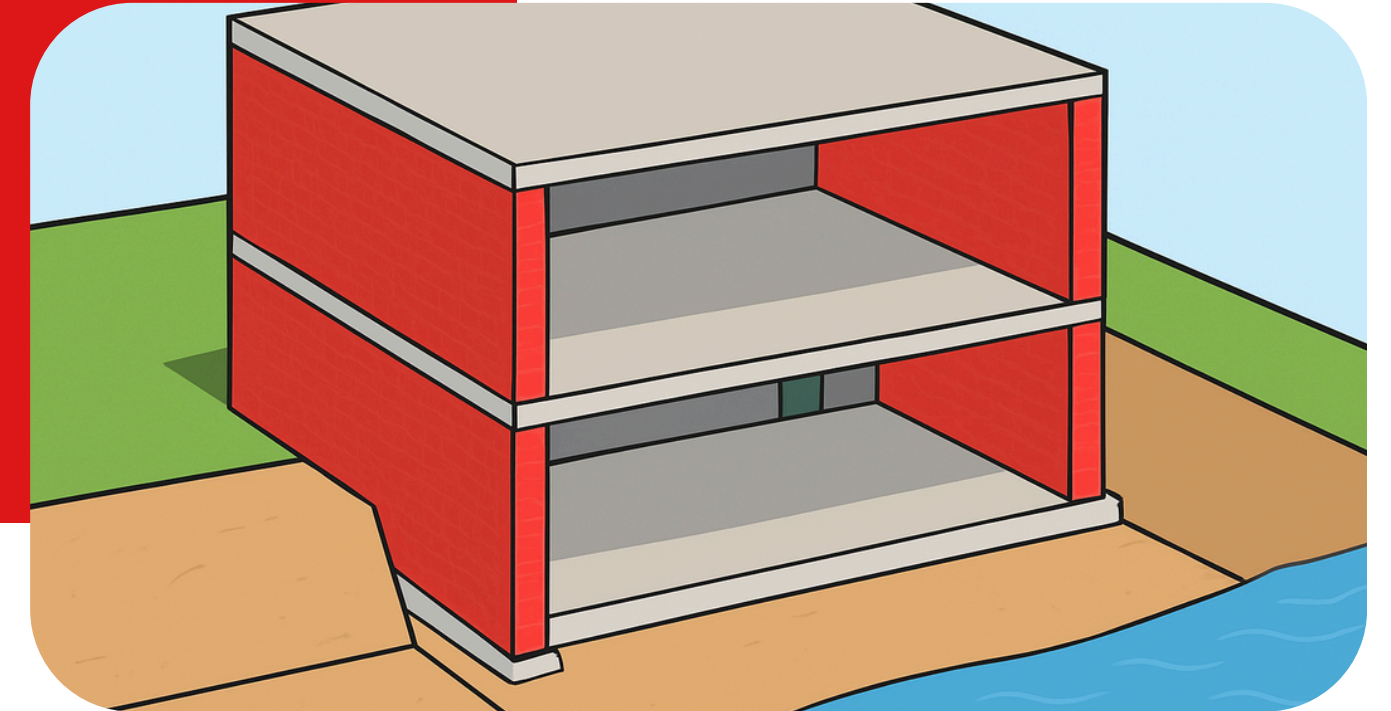
MAIN CAUSES OF UNTIGHT AN BASEMENT

Concrete
Defects and
Structural
Interruptions



Water leakage in concrete walls mostly occurs through cracks, construction joints, honeycombs, and service pipe penetrations. These weak areas create direct paths for water to enter the structure.

Even when concrete is designed to be water-resistant, poor workmanship, improper compaction, or casting interruptions can create defects. Any inconsistency in the concrete reduces its resistance to water and may lead to long-term structural damage. Proper detailing and waterproofing protection are essential to prevent seepage.



Natural Porosity of Building Materials

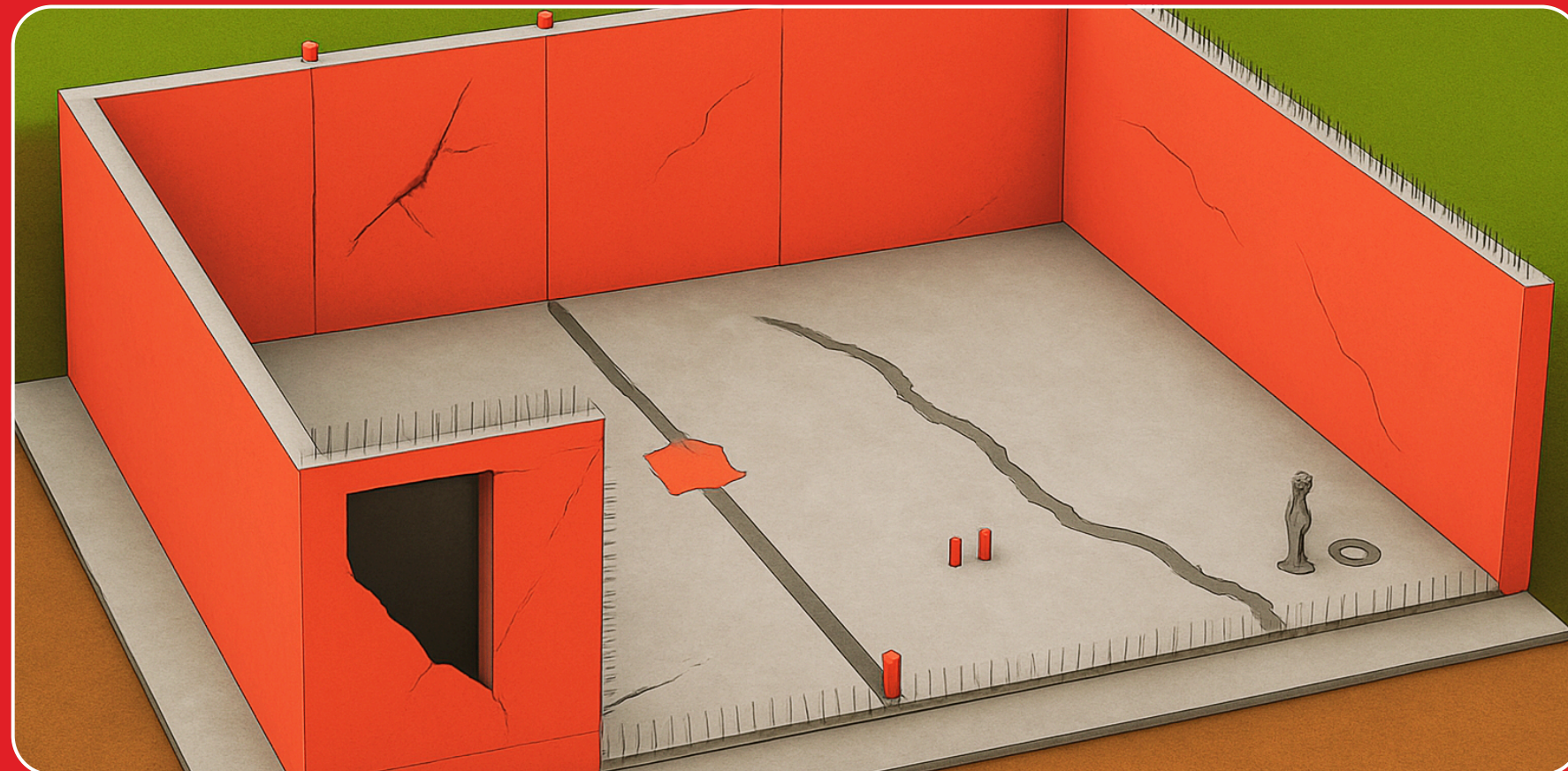
Masonry materials such as bricks and blocks naturally contain tiny pores that absorb and transmit moisture. Over time, this allows water to penetrate walls, especially in damp or rainy conditions.

When moisture combines with salts, it accelerates surface damage, paint peeling, mould growth, and structural deterioration. Damp walls not only affect indoor comfort but can also weaken foundations. Effective waterproofing treatment is necessary to protect buildings from these risks.

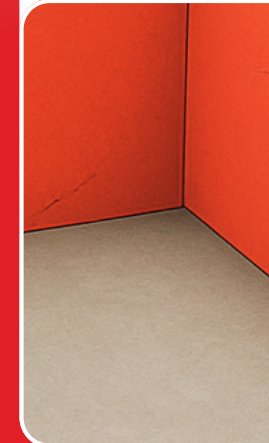
WATERPROOFING RENOVATION OF CONCRETE WALLS

In cases of water ingress resulting from localized damage to the waterproofing system, it is essential to perform suitable repairs to seal the leaking areas. Often, these repairs can only be executed through injection methods, as access to the waterproofing system is typically limited in most basements and below-ground structures.

WHERE TO USE	Concrete basements with leaking cracks or joints or water penetrating through concrete defects.
KEY BENEFITS	No excavation necessary. All treatments can be done from inside.
LIMITATIONS	In case of poor concrete quality and severe water infiltration the box-in-box technique may be the only viable solution.



INTERNAL VERTICAL BARRIERS



PC-Sealcoat® Flex

Two component acrylic co-polymer based flexible waterproofing coating

PC-Sealcoat® Elastic

Two-component, cement-based highly flexible, elastomeric waterproof coating.

INJECTION SYSTEMS



PC-Inject Seal® PU 100

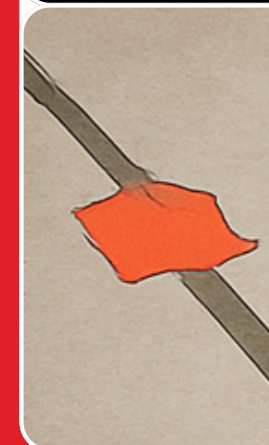
Hydrophobic grout based single component polyurethane injection for crack repair

PC-Inject Seal® EP

Two-component low viscosity epoxy injection resin for cracks

COMPLEMENTARY PRODUCTS

for joint sealing and waterproofing



PC-Seal® Tape

High-performance system for sealing joints and cracks, suitable for construction joints, expansion joints, movement joints, connections, and cracks.

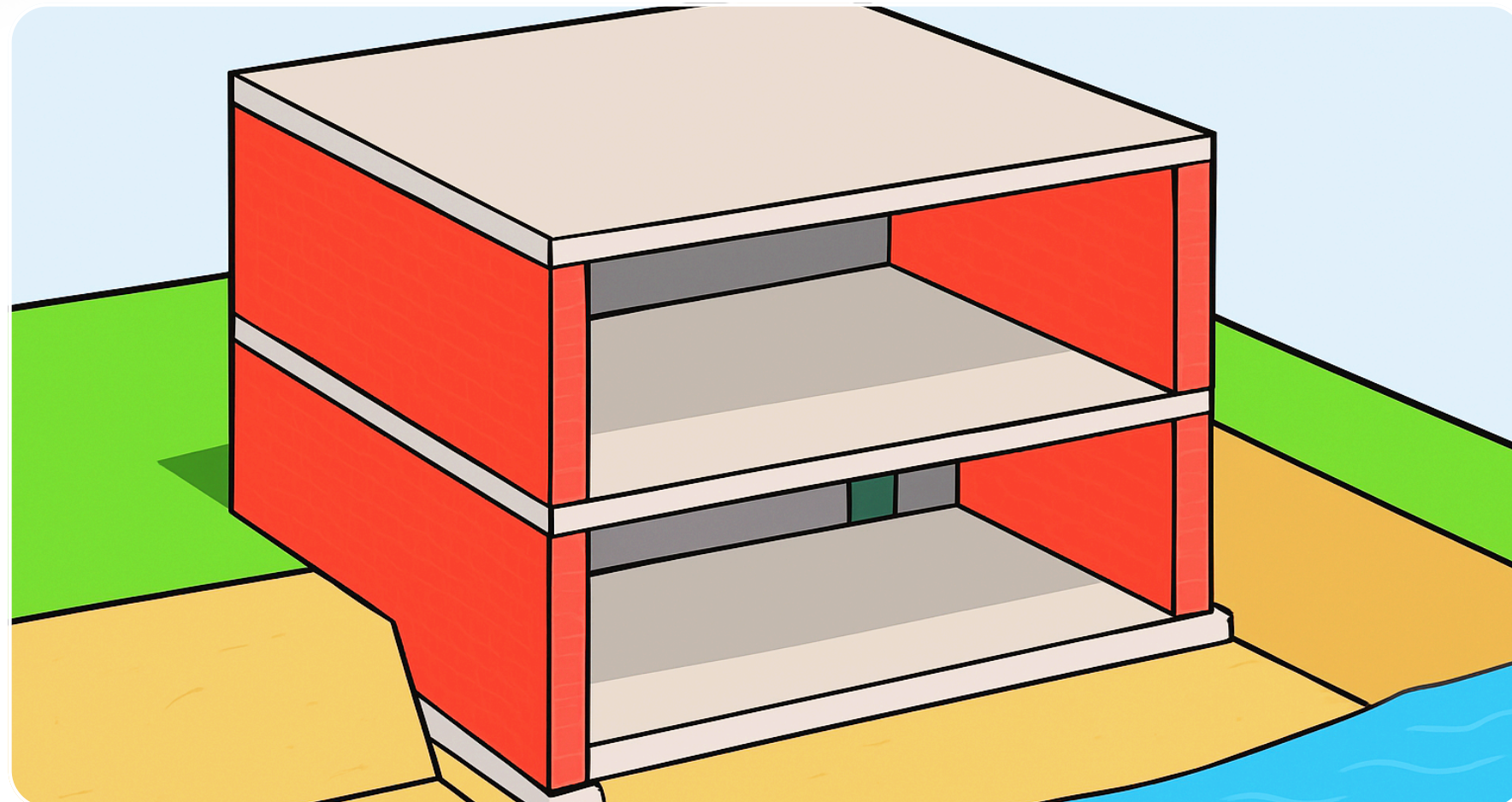
PC-Seal® Tape Flex

Polyester-based sealing tape.

EXTERNAL (POSITIVE-SIDE) WATERPROOFING OF MASONRY WALLS

When external access and excavation can be performed, the recommended waterproofing technique is to apply vertical barriers on the exterior side to keep the wall dry and protected. Furthermore, placing a horizontal barrier at the lowest practical level of the wall effectively mitigates the risk of rising damp.

WHERE TO USE	Masonry basements exposed to water without pressure where access and excavation around the basement is possible.
KEY BENEFITS	Waterproofing on the external (positive) side keeps walls dry and protected.
LIMITATIONS	If access to the external side of the walls is not possible this technique is not applicable.



INTERNAL VERTICAL BARRIERS

PC-Sealcoat® Flex

Two component acrylic co-polymer based flexible waterproofing coating

PC-Sealcoat® Elastic

Two-component, cement-based highly flexible, elastomeric waterproof coating.

INTERNAL FINISHING

PC-Sealcoat® BT

Bituminous-based waterproofing coating.

DAMP PROOF COURSE (DPC)

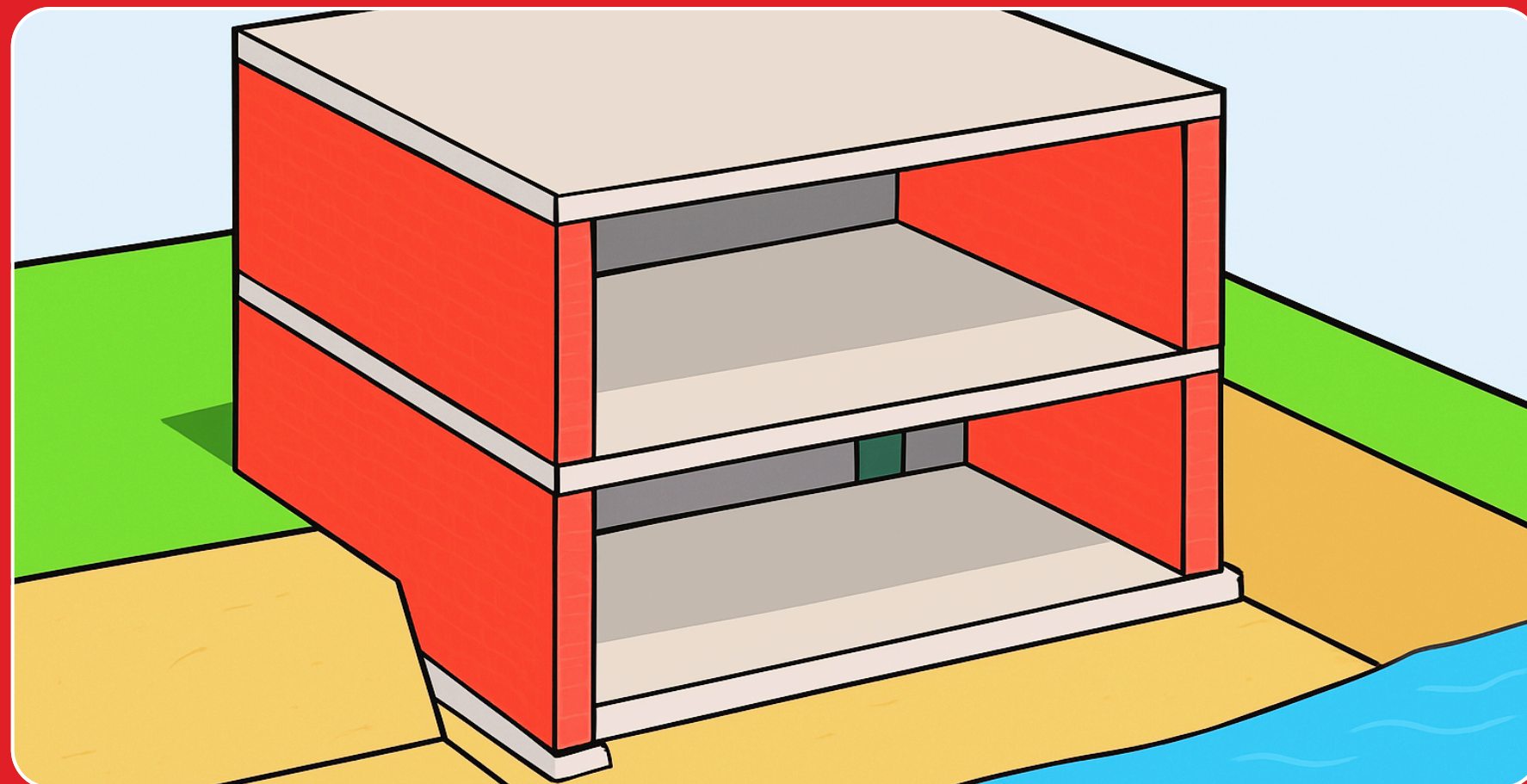
PC-Inject seal® DPC

Silicone based, ready to use, colorless, hydrophobic impregnation with deep penetrating property

CURTAIN INJECTION WATERPROOFING OF MASONRY WALLS

When external access and excavation are feasible, the ideal waterproofing technique involves applying vertical barriers on the exterior side to ensure the wall remains dry and protected. Furthermore, placing a horizontal barrier at the lowest practical level of the wall significantly reduces the risk of rising damp.

WHERE TO USE	Masonry basements exposed to water with pressure where access and excavation around the basement is not possible.
KEY BENEFITS	Dry walls without the need of excavation
LIMITATIONS	Highly deteriorated masonry or unstable loose fill behind the walls.



INTERNAL VERTICAL BARRIERS



PC-Sealcoat® Flex

Two component acrylic co-polymer based flexible waterproofing coating

INJECTION SYSTEMS



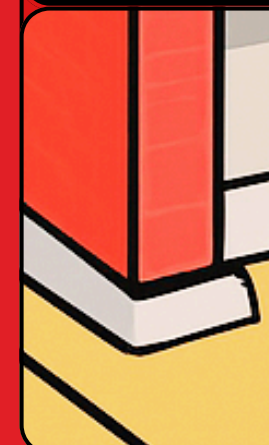
PC-Inject Seal® PU 100

Hydrophobic grout based single component polyurethane injection for crack repair

PC-Inject Seal® EP

Two-component low viscosity epoxy injection resin for cracks

DAMP PROOF COURSE (DPC)



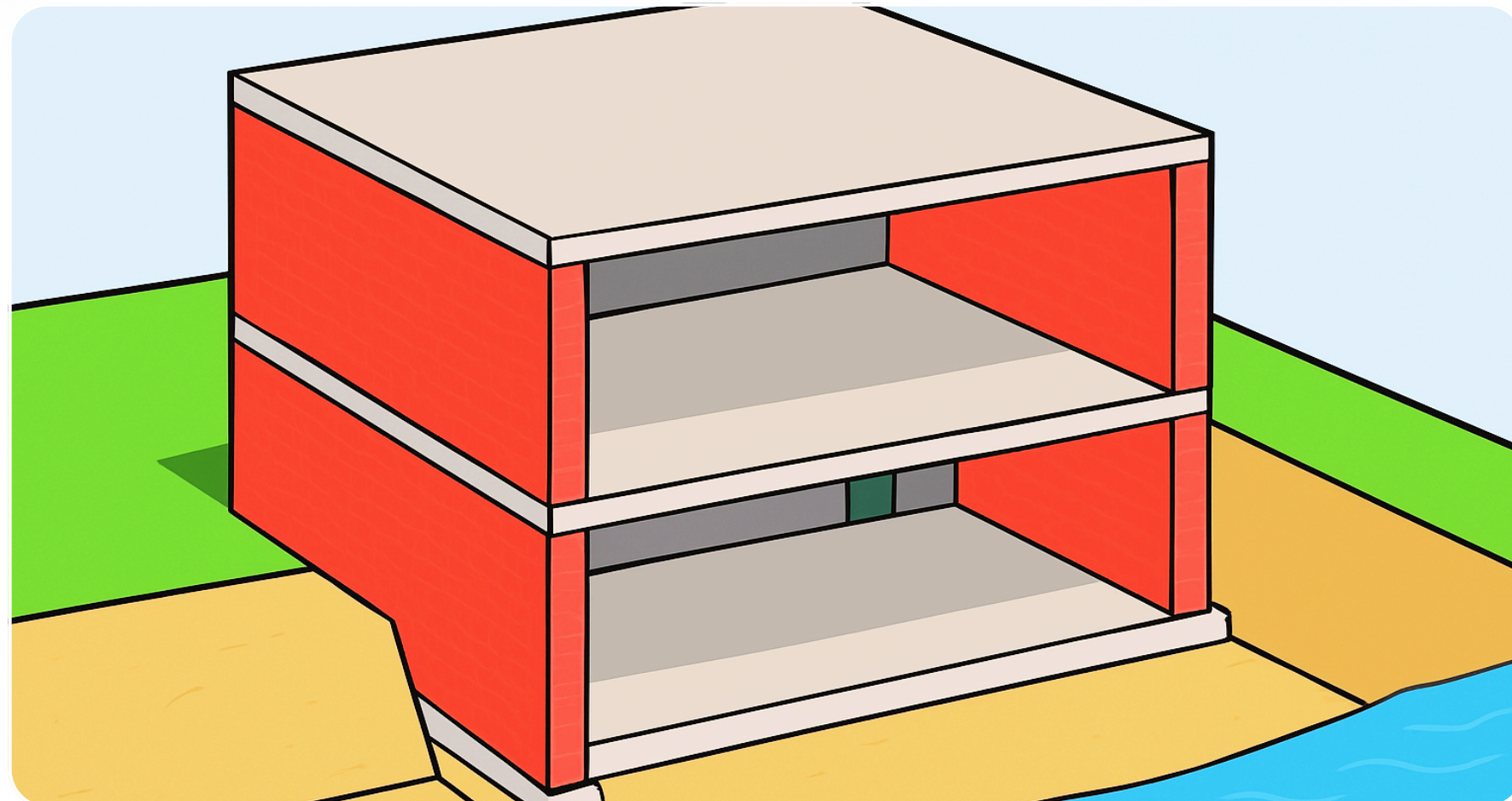
PC-Inject seal® DPC

Silicone based, ready to use, colorless, hydrophobic impregnation with deep penetrating property

INTERNAL (NEGATIVE-SIDE) WATERPROOFING OF MASONRY WALLS

When external access and excavation are feasible, the ideal waterproofing technique involves applying vertical barriers on the exterior side to maintain the wall's dryness and protection. Furthermore, incorporating a horizontal barrier at the lowest practical level of the wall significantly reduces the risk of rising damp.

WHERE TO USE	Masonry basements exposed to water without pressure where access and excavation around the basement is not possible.
KEY BENEFITS	The most easy-to-install solution.
LIMITATIONS	Water penetration under pressure during flooding or in case of high water table level.



INTERNAL VERTICAL BARRIERS

PC-Sealcoat® Crystal

Cementitious crystalline waterproofing coating System.

INTERNAL FINISHING

PC-Sealcoat® BT

Bituminous-based waterproofing coating.

DAMP PROOF COURSE (DPC)

PC-Inject seal® DPC

Silicone based, ready to use, colorless, hydrophobic impregnation with deep penetrating property

BENEFITS OF BASEMENT WATERPROOFING



SAFETY AND DURABILITY IMPROVEMENT

A strong foundation ensures stability and resilience against natural disasters. It also extends the structure's lifespan by enhancing durability.



CLIMATE STABILITY

Basements are cooler in summer and warmer in winter. Proper insulation and waterproofing can lower heating and cooling costs.



HEALTHY ENVIRONMENT

Basement waterproofing creates a healthier space by preventing water intrusion, blocking radon gas, and stopping mold growth.



INCREASE OF PROPERTY VALUE

Completing a basement can significantly increase a property's value, boosting it by 20–30%.



INCREASE OF LIFE'S QUALITY

The basement serves as an extra space for leisure and storage, ideal for home offices due to its poor sound transmission.