

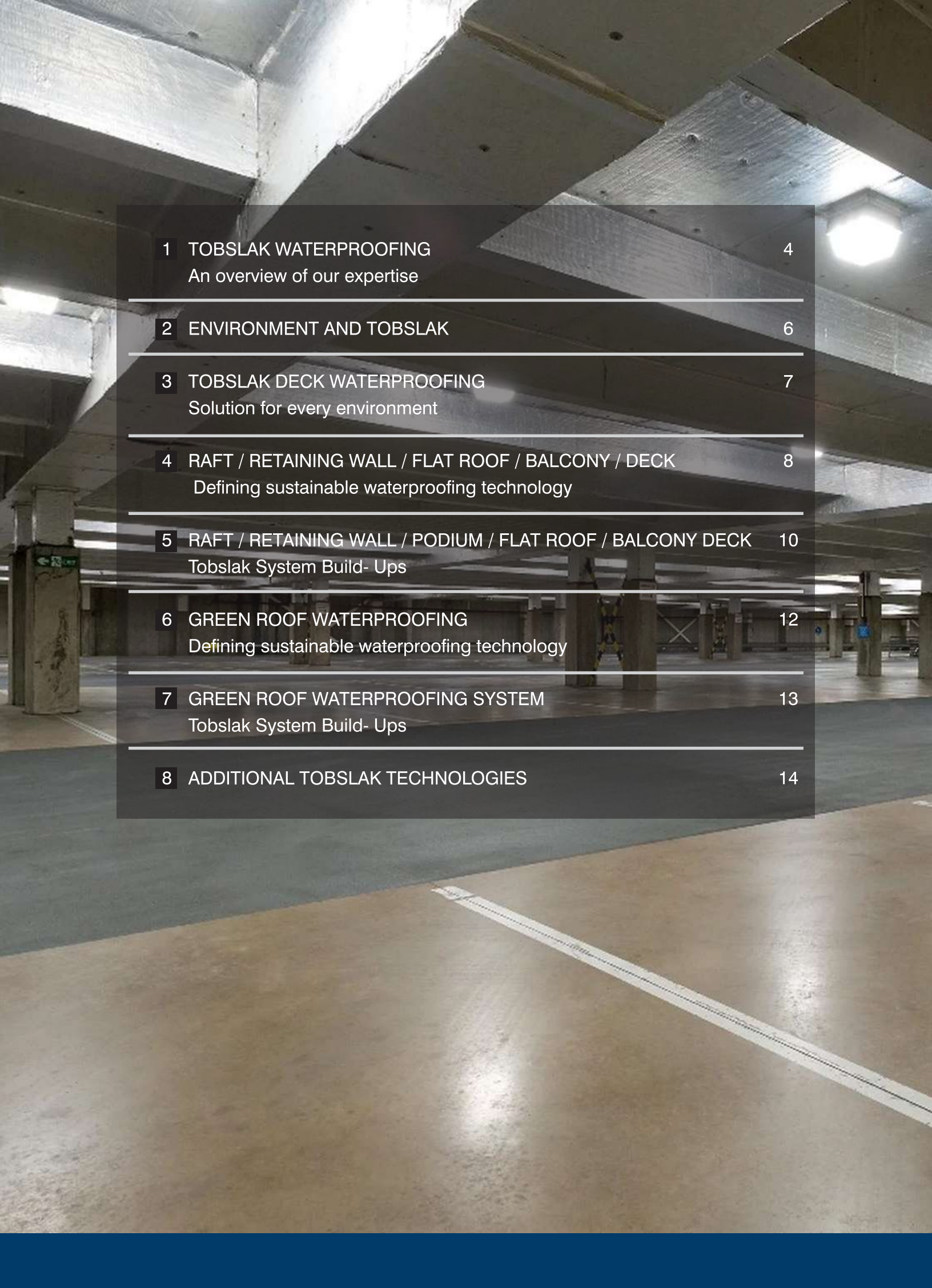
NEW GENERATION BUILDING WATERPROOFING

System for Raft, Retaining Wall, Podium, Car Park & Flat Roofs

www.tobslak.com



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TOBSLAK WATERPROOFING

An Overview of Our Expertise

Tobslak are renowned for their technical innovation in material for facade protection. This include system for concrete substrate protection & restoration. One of the primary requirements for facades is the prevention of water ingress and the management of water and water vapour movement through and out of the building, particularly from the fabric of the building envelope. This is of course exactly the same for the foundations and any below ground areas of building structures. Therefore it is no surprise that Tobslak is also leading experts in the waterproofing and protection of these important areas too. Our advanced systems provide the latest technologies for internal tanking, external ground water protection and containment. In addition there are many special solutions for all types of water stopping, such as replacement damp-proof courses (DPC), through resin injection. We are well known expert in resin flooring for all types of industrial, manufacturing and commercial applications. These include the high-tech electronics industry, aerospace and automotive, pharmaceutical, food and beverage industries, plus education, utility and service facilities such as schools, kitchens, wash rooms, workshops, restaurants, and retail stores.





TOBSLAK WATERPROOFING SOLUTIONS



ENVIRONMENT AND TOBSLAK

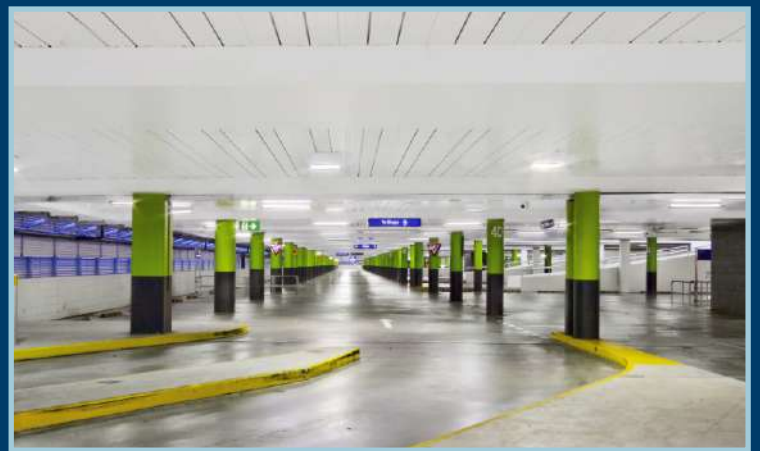
Tobslak have a clear focus, a clear corporate commitment and the main driving force for our extensive research and development team throughout our 'state of the art' laboratories, production and distribution facilities. We use high performance water based coating materials and the removal of toxic substances from preservatives and impregnations for many years.

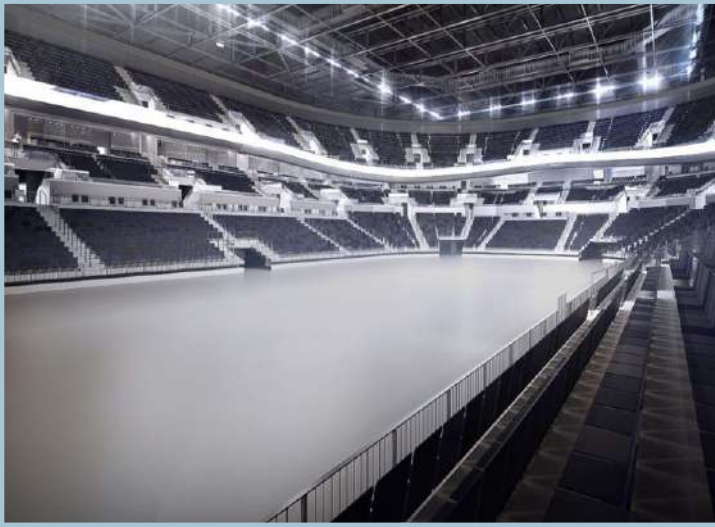
Innovations include:

- Safe biological controlled, replacing biocides with nano-silver technology
- Highest renewable raw materials content in our latest binders
- 100% inorganic silicate binders with the lowest order CO₂ demand
- Fillers for resin and cement binders based upon recycled materials

- Cream consistency products which dramatically reduce waste
- Innovative packaging solutions to speed application and reduce waste disposal
- Waterproofing products reducing heat loss from buildings thus reducing energy demand

Tobslak waterproofing coatings based on an extremely tough 'new generation' of water based elastic polyurethane polymer binders. These have a high proportion of fillers from recycled materials and the new polymer binders are developed from renewable resources. This allows our system to be installed with a sustainable draw on the earth's natural resources. It also provides contractors with the best 'state of the art' materials, which are safer to work with.





TOBSLAK DECK WATERPROOFING

Solution for Every Environment

From the waterproofing of podium decks which must keep the basement or parking structure below dry; to the waterproofing of balconies with attractive non-slip coatings, that must also prevent water and salt ingress to the reinforcing steel, Tobslak have it all completely covered. Additionally roof decks are waterproofed and protected with our wide range of liquid applied waterproofing membranes.

To ensure that even in the toughest of all building environments decks are protected, we also produce a wide range of systems for car park deck waterproofing. Here, the mechanical wear and abrasion combines with the worst in environmental exposure, which

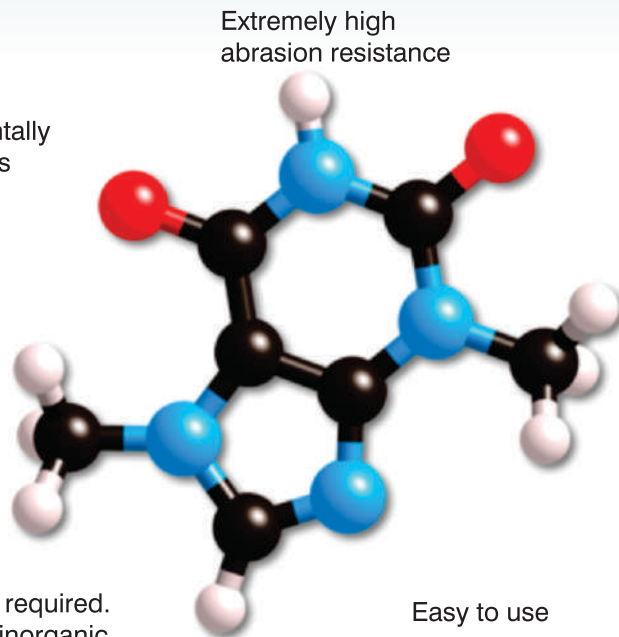
therefore demands tough, durable and secure solutions. Tobslak polymer systems are developed from many different raw materials to provide a range of waterproofing products and systems.

These are based on polymer cements, bitumen emulsions, epoxy resins, polyurethane and hybrid or combined material solutions. Exciting new Tobslak developments inorganic silicate technology mean that we are leading the world with a new generation of protective products that are produced with huge reductions in carbon demand thereby also reducing the carbon footprint of your project.

Made of environmentally friendly raw materials

Unique technology the world over

No labelling required. Completely inorganic



Extremely high abrasion resistance

Unequalled adhesive bonding to the substrate

Extremely high chemical and mechanical resistance

Easy to use



Raft / Retaining wall / Flat roof / Balcony / Deck **Defining sustainable waterproofing technology**

Decks, Roof, balconies and building challenging areas have to withstand the equivalent of the combined stresses imposed on building facades and industrial floors, due to their being both externally exposed and trafficked. So, to be durable and effective, the surface protection and waterproofing must accommodate this wide variety of stress.

The necessary building condition survey and assessment of these stresses and their possible combinations, we can provide the ideal specification

for cost-effective and durable waterproofing and protection. Due to our understanding of the function and overall exposure of the structure and its surfaces, this is designed to be efficient throughout a long service life.

Tobslak can provide full technical support for all the details needed to design suitable system. We supply all the necessary ancillary building materials including grouts, pre-formed joints and sealants.



CRACK BRIDGING REQUIREMENTS

If the waterproofing integrity is to be maintained in areas subject to cracking, crack bridging properties are best achieved using Tobslak reinforced elastic waterproofing systems.



SUPPORTING STRUCTURE

The condition of the supporting structure must be surveyed and assessed prior to successful deck waterproofing. Any corroding reinforcing steel or damaged concrete must first be repaired - no problem with Tobslak systems.



MECHANICAL ABRASION AND WEAR

Mechanical abrasion and wear from different types of traffic, from light occasional foot traffic to very heavy vehicular traffic - particularly in turning areas or ramps.



DRAINAGE DETAILS

Drainage details and fittings must be carefully incorporated and sealed into the deck waterproofing system - no problem with the range of Tobslak detailing solutions.



SLIP RESISTANCE

Slip resistance is required where the decking will be directly trafficked. This always has to be balanced with the need for the surfaces to be easily cleaned.



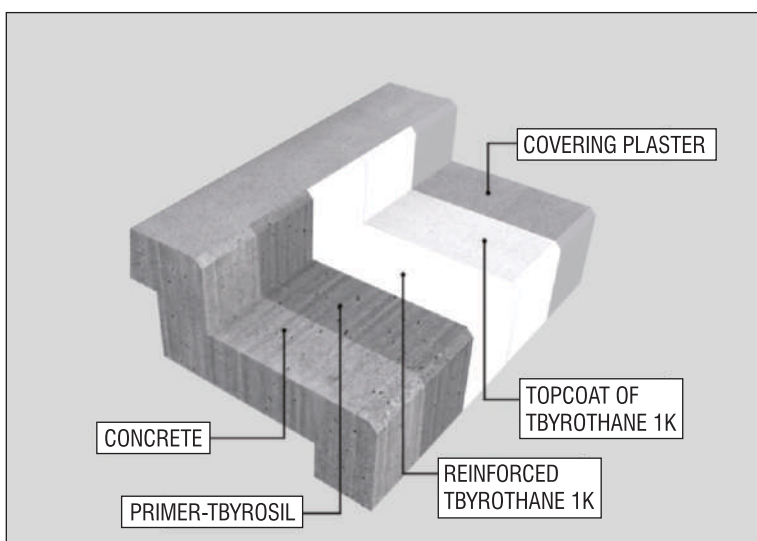
ROOT BARRIER

Damage by plant roots in integrated planting boxes is easily avoided by selecting the appropriate Tobslak waterproofing system.

RAFT / RETAINING WALL / PODIUM / FLAT ROOF / BALCONY DECK

Tobslak System Build- Ups

	Problem	Working Operations	Tobslak System Solution
	Pre-Treatment for following Problem	Prepare Concrete / asphalt	Blasting / Grinding surface
Pre-treatment	Concrete Repair	Corrosion Protection	Repair Mortar Tob CSP
	Leak Stopping	Stopping water penetration	Waterstop Tape, Injunction Grout Tobust LQ
	Ashphalt Repair	Corrosion Protection	Rust Inhibitor AC Primer, Repair mortar Atu SAF-10
Waterproofing system	Rigid System	Base Coat	Epoxy TS 200
	(≤2mm)	Top Coat	Epoxy TS 300
		Priming Concrete Base Layer	Tbyrosil
		Base Coat	Tbyrothane 1 K
	Reinforced Elastic	Reinforced coat	Fleece 30 gsm
	Liquid Memberane	Top Coat	Tbyrothane 1 K
	(1-2 MM)		





SURFACE PREPARATION

Concrete and cement screed surfaces must be cleaned and then mechanically prepared by blast cleaning or equivalent means. Asphalt surfaces are cleaned and abraded.



CRACK REPAIRS

Any cracks or leaks through the concrete or screed substrate must be sealed and filled. Where necessary these are also reinforced with Tobslak resin bound fleece reinforcement.



SUBSTRATE REPAIR

The substrate must be repaired and made good with an appropriate Tobslak repair system (cement or resin based) to provide a sound, uniform and level substrate.



COVING / SKIRTING

At the perimeter edges the system must be correctly finished into the drainage details and coved or taken seamlessly up any adjacent vertical surfaces.



BASE PRIMING COAT

The correct priming coat for the waterproofing system selected is uniformly applied to seal the prepared surfaces. Tbyrosil recommended as primer for concrete surfaces.



BASE COAT

The basecoat of Tbyrothane 1K on the primed deck with suitable tool, dosage of material as per recommended in specification.



FLEECE REINFORCEMENT

Fleece Reinforcement should be embedded at this stage between the both the coats.



TOP COAT

Application of the topcoat of tbyrothane 1K on the fleece as topcoat.



COVERING PLASTER

Waterproofing system should be covered with finish like screed, tiles etc. as per design.

GREEN ROOF WATERPROOFING

Defining sustainable waterproofing technology

High quality and long lasting waterproofing of a roof is among the most important elements whenever you decide on building a house.

Tobslak waterproofing green roof system is intended for flat or slightly pitched roofs on residential, commercial, administrative, industrial, agricultural, or sports buildings.

The most frequently used advance materials involve TOBFOL PVC and Tobslak liquid waterproofing membranes manufactured Tobslak advanced technology.

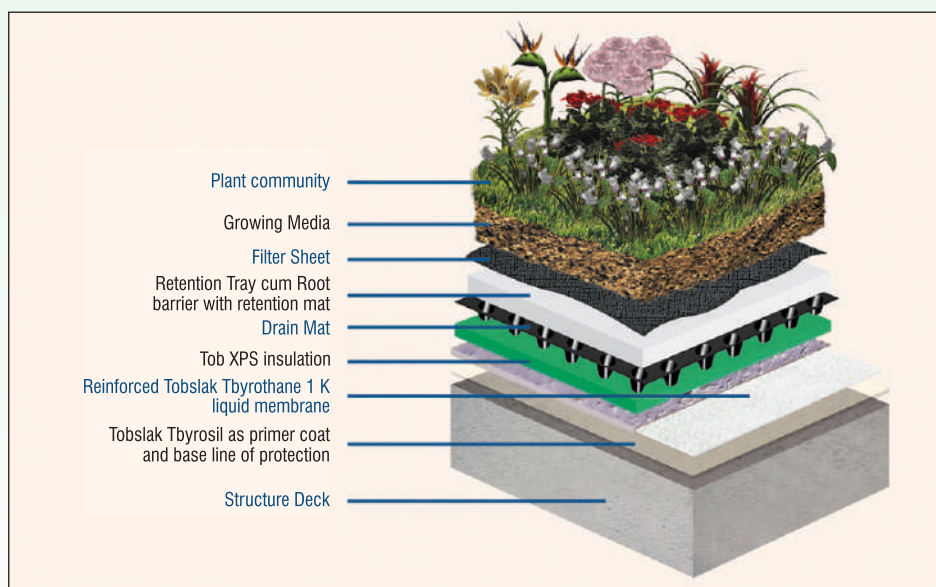
Advantages of tobslak green roof waterproofing system is minimum additional load on roof, structure, excellent resistance to weather, structural strength and resistance, good chemical, resistance, high water vapour permeability, resistant to roots, excellent weldability & minimum additional load on roof structure.



Green Roof Waterproofing System

Tobslak System Build- Ups

	Problem	Working Operations	Tobslak System Solution
	Pre-Treatment for following Problem	Prepare Concrete / asphalt	Blasting / Grinding surface
Pre-Treatment	Concrete Repair	Corrosion Protection	Repair Mortar Tob CSP
	Leak Stopping	Stopping water penetration	Waterstop Tape, Injunction Grout Tobust LQ
	Ashphalt Repair	Corrosion Protection	Rust Inhibitor AC Primer, Repair mortar-ATUSAFE-10
waterproofing system		Priming Concrete Base Layer	Tbyrosil
		Base Coat	Tbyrothane 1 K
	Reinforced Elastic Liquid Memberane	Reinforced coat	Fleece 30 gsm
	(1-2 MM)	Top Coat	Tbyrothane 1 K
		Soil Retentation Fleece	Fleece 100 gsm
		Retation Tray	Tobfol PVC



ADDITIONAL TOBSLAK TECHNOLOGIES

FREE INSPECTION SERVICES

Tobslak provides a complete range of material with a free site inspection service for owners & specifiers.

We provide detailed system specifications for many other areas of repair, protection and waterproof building structure in addition to raft , retaining wall, flat roof, podium car park and green roof.

This also includes façade protection and below ground waterproofing. These are complemented by Tobslak injection waterproofing system and chemicals damp proof courses which treats from either side of the structure.

You can also ask us for the more details on these additional waterproofing systems

EXTERNAL WATERPROOFING FOR GROUND WATER CONTACT

Tobslak PU based Tbyrothane system

SUNKEN AREAS

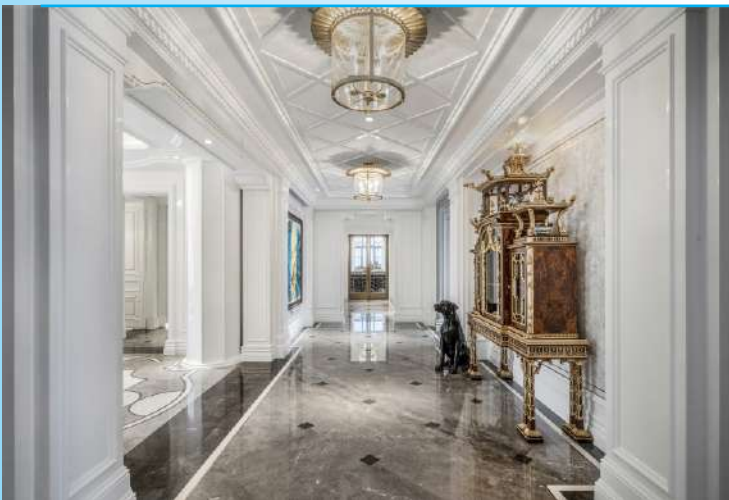
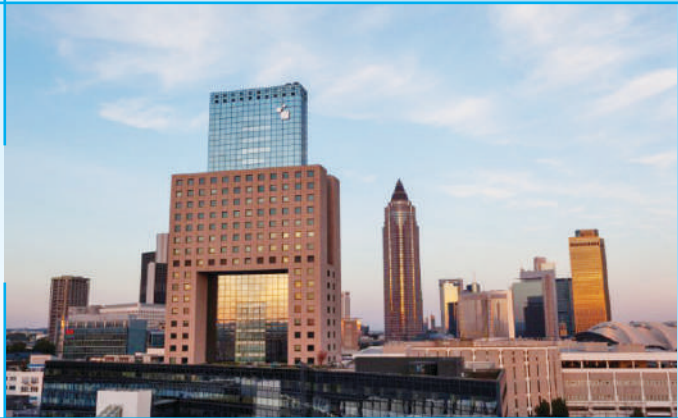
Tobslak Tbyrosil & Tobust grout silicate & mineral base system

STP & DRINKING WATER TANKS

Tobslak Tbyrosil & Tobust grout silicate & mineral base system

MINERAL FACADE PROTECTION

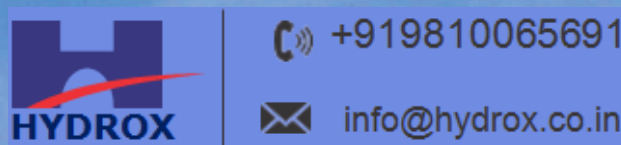
Tobslak Tibonik Silicon based system





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