

# ROOFING SOLUTIONS

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**WATERPROOFING & PROTECTION SYSTEMS  
WITH LIQUID MEMBRANES & COATINGS**



#buildingquality

**isomat**

building quality

for a sustainable future

# TABLE OF CONTENTS

Introduction.....	1
Types and advantages of liquid waterproofing membranes & coatings.....	2
Application fields.....	4
Building protection with emphasis on sustainability & well-being.....	6

## **SYSTEMS**

01. Waterproofing of flat roofs subject to short-term ponding.....	8
02. Flat roof waterproofing over old bituminous membranes .....	9
03. Waterproofing of flat roofs subject to long-term ponding.....	10
04. Waterproofing and protection of utility flat roofs.....	11
05. Fast-track waterproofing and protection of large industrial flat roofs.....	12
06. Flat roof waterproofing and protection over old bituminous membranes .....	13
07. Car park deck waterproofing and coating.....	14
08. Fast-track car park deck waterproofing and coating .....	15
09 - 10. Under-tile waterproofing .....	16 - 17
11. Flat roof or balcony waterproofing and finishing with decorative stone carpet flooring .....	18
12. Flat roof or balcony waterproofing and coating with decorative flake flooring.....	19
13 - 14. Green roof waterproofing.....	20 - 21
15. Waterproofing of flat roofs covered with gravel or roof plates.....	22
16. Fast-track waterproofing of flat roofs covered with gravel or roof plates .....	23
17. Waterproofing and protection of metal roofs .....	24
18. Fast-track waterproofing and protection of metal roofs.....	25
Product information.....	26
Reference projects.....	34

## INTRODUCTION

Today's construction industry requires technologically advanced waterproofing and protection systems for buildings. High durability, easy application, sustainability, effortless maintenance and even high aesthetics are some of the most common criteria when choosing among the plethora of available solutions in the market.

ISOMAT has developed a wide range of roofing waterproofing and protection systems with liquid-applied membranes and coatings that meet the diverse requirements of different roof types, taking into consideration their use, as purposed by the owners, and the varied weather conditions around the world. Our product range consists of liquid-applied polyurethane materials, hot- and cold-applied polyurea products, as well as elastomeric water-based membranes, which when combined with suitable primers and/or coatings provide a variety of system solutions for any possible application, such as flat roofs, metal roofs, podium and parking decks, roof terraces, balconies, etc.

To choose the most appropriate waterproofing solution for your roof type, do not hesitate to contact our Technical Support Department. Our team of experts will provide you with the best possible solution, customized to the specific needs of your project. In this brochure we present the most common roofing cases and the system solutions we recommend for each case.

*ISOMAT has over 40 years of experience and know-how in waterproofing materials. Finding and providing the most up-to-date and reliable waterproofing solutions is written in our DNA.*



# TYPES AND ADVANTAGES OF LIQUID WATERPROOFING MEMBRANES & COATINGS

POLYURETHANE liquid waterproofing membranes and coatings represent an indispensable technology in today's roofing industry. ISOMAT has a vertically integrated and automated production plant for polyurethane-based products such as liquid-applied waterproofing membranes, floor coatings, joint sealants, impregnations, varnishes and primers, making it one of the few industries in the world producing one-component polyurethane materials.

ISOMAT's polyurethane membranes and coating systems are the perfect solution for special applications with high requirements in durability, UV resistance, weather protection, chemical and thermal resistance and resistance to long-term ponding water. Thanks to their high mechanical properties and flexibility, particularly at lower temperatures, and their ability to cure under a wide range of conditions, polyurethane-based liquid waterproofing membranes and coatings can be applied in climatically challenging environments.

POLYUREA coating technology constitutes a more recent and advanced system than the traditional ones used in waterproofing and protective coating applications. This technology is based on the reaction of an isocyanate component with an amine blend. Its exceptional properties result in rapid completion of works and immediate return-to-service, while making it suitable for a wide range of applications, especially under highly demanding conditions. Polyurea products can be hot-spray applied or cold-applied, the latter being also called polyaspartics, featuring different characteristics and benefits.

Hot spray-applied polyurea is used in a myriad of waterproofing and protection applications, especially in those where high mechanical and chemical resistance, fast completion of works, and immediate return-to-service are critical considerations, e.g. industrial, commercial, residential, and infrastructure projects, wastewater treatment facilities, water tanks, the automotive industry, and even the ballistic industry.

ISOMAT hot spray-applied polyurea membranes feature ultra-fast curing. Gel time is achieved within seconds, allowing for foot traffic after a few minutes and use of the facility in less than one day, significantly reducing downtime. They have impressive chemical resistance and exceptional mechanical properties. Almost no coating can compare to polyurea when it comes to attainable physical properties. Polyurea is hydrolytically stable, so relative humidity or residual moisture have little to no effect on adhesion or coating performance. It also features thermal stability, meaning temperature variations hardly influence coating performance or adhesion ability. Polyurea delivers an easy-to-clean surface, which can also withstand most cleaning processes in industrial projects thanks to its chemical resistance. By offering high resistance to aging and abrasion, ISOMAT polyureas could be a permanent solution for any project, providing they are maintained and cared for properly. Furthermore, with a 100% solids formula and very low VOC emissions, polyurea products stand out as a great environmentally friendly waterproofing option. After curing, polyurea products form a seamless membrane featuring vapor permeability. They are applicable even to vertical and curved surfaces, making them ideal for complex structures and details. They are spray-applied with high-pressure and high-temperature plural-component spray equipment, allowing trained installers to build up a finished thickness with accuracy in a single pass. Most hot spray-applied polyurea membranes used in construction projects should not be left exposed to UV radiation. A suitable ISOMAT UV-stable protective coating should be used as a final layer.

Cold-applied polyureas, also known as polyaspartics, are materials intended for use in a wide range of waterproofing and flooring applications, including flat roofs, balconies, patios, walkways and car park decks.

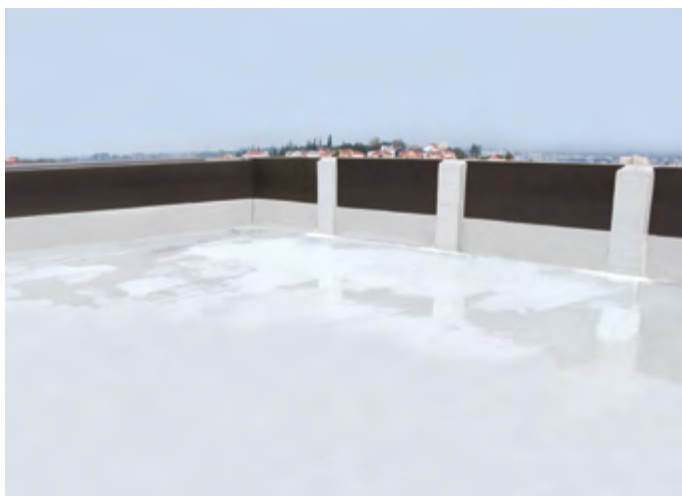
ISOMAT cold-applied polyurea products stand out from the other common waterproofing and flooring solutions for their unique combination of the various benefits they offer to both owners and applicators. Unlike hot spray-applied polyureas, most of them are aliphatic, meaning they remain unaffected by exposure to UV radiation, featuring non-yellowing properties. This is why they can be left as an exposed layer. They also have fast-curing times and allow any application to be completed within one day, providing for next-day return-to-service. They exhibit high mechanical strength and chemical resistance, meaning they are well-suited materials for use in flooring applications. Cold-applied polyureas are usually solvent-free and low-VOC products, making them ideal for indoor applications. They are easily applied through conventional tools used mainly when applying liquid membranes and coatings, namely roller, brush or airless spray.

ELASTOMERIC WATER-BASED liquid waterproofing membranes have been available on the market for many years. They are a popular waterproofing solution for domestic flat roofs thanks to their ease of application with conventional means, as no special equipment or specialized crew is required. They constitute also a reliable, cost-effective solution, particularly in regions with moderate climates.

ISOMAT has developed a hybrid elastomeric liquid waterproofing membrane based on acrylic and polyurethane resins for flat roofs with high resistance to short-term ponding. It features elasticity and shows excellent resistance to weather conditions and aging. It forms a uniform, elastic, watertight and vapor-permeable membrane, without seams and joints. It is also well-suited for refurbishment of old bituminous layers and for waterproofing roof details.



# APPLICATION FIELDS



Flat roofs



Roof details



Old bitumen roofs



Metal roofs



Roof terraces & balconies



Gravel ballasted roofs



Exposed car park decks



Green roofs



Terraces



Special structures



Podium decks

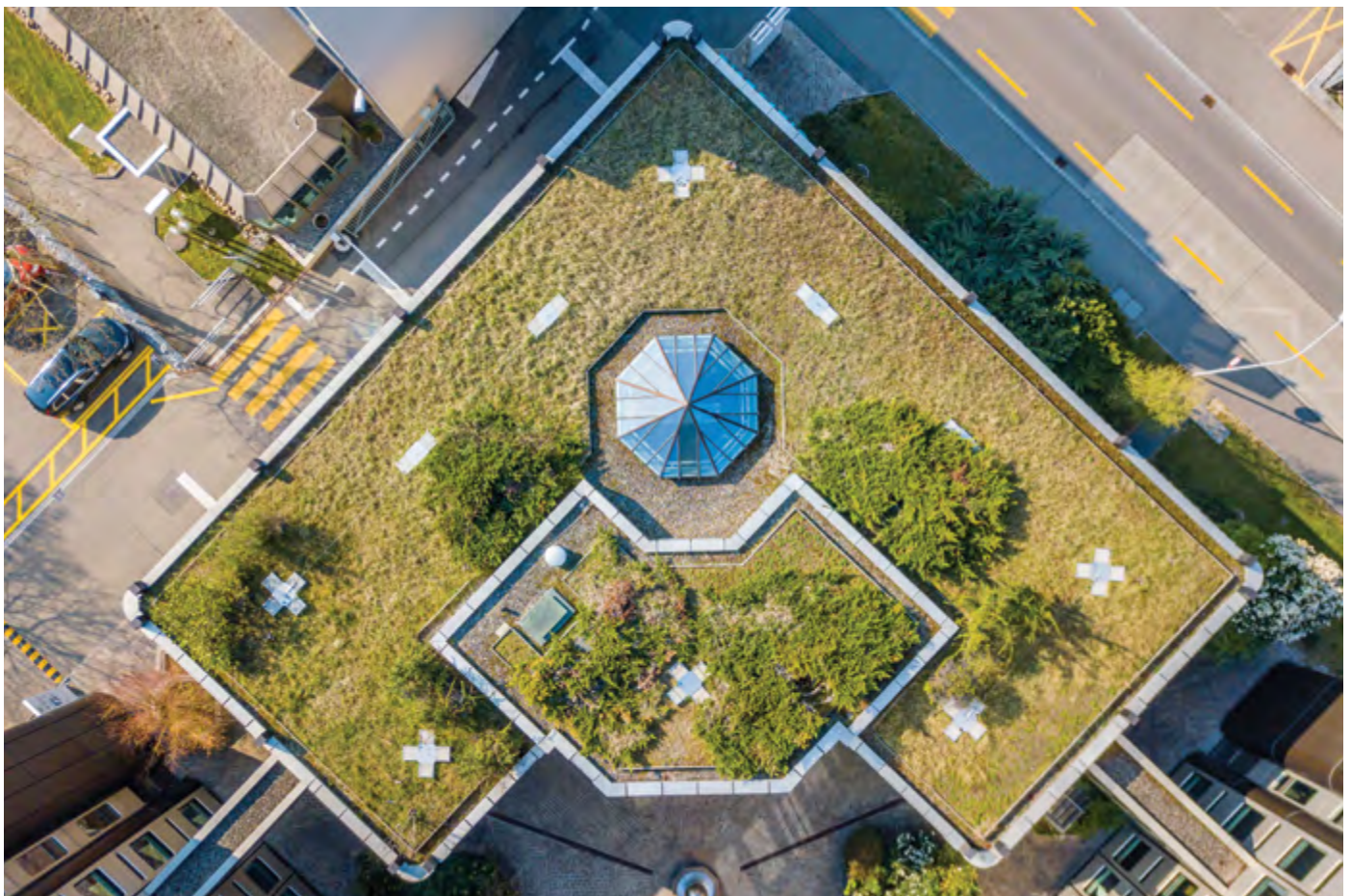


Stadium grandstands

# BUILDING PROTECTION WITH EMPHASIS ON SUSTAINABILITY & WELL-BEING

Waterproofing and shielding the building envelope from the elements is a crucial step when it comes to successfully renovating an existing property or starting from scratch with a new build. Besides the expected benefits to the building's operation, namely reducing maintenance costs and ensuring optimal living conditions, they also play an integral role in protecting the environment and the health and well-being of the occupants.

ISOMAT's durable and reliable flat roof waterproofing systems can help a building earn credits towards obtaining green building certifications such as **LEED**. This is achieved by optimizing building energy performance (Energy & Atmosphere: Minimum Energy Performance & Optimize Energy Performance) and reducing the urban heat island effect (Sustainable Sites: Heat Island Reduction). In fact, installing a green roof or opting for roofing materials featuring high solar reflectance does not only constitute a great opportunity to move rooftops away from purely recreational use or no use whatsoever and drive more value from them but also improves the building's energy efficiency by reducing the roof surface temperature and contributes to the reduction of the structure's environmental footprint. This basically means that the heat entering the building, mostly in the summer months, is reduced significantly, thereby lowering cooling costs and ensuring thermal comfort for building occupants, mainly those on the top floors. At the same time, the less the amount of heat absorbed by the building elements, the lower the urban heat island effect.



Plus, by selecting ISOMAT's high-performing waterproofing product solutions, projects can earn points towards WELL certification. The **WELL Building Standard (WELL)** fills potential gaps in other sustainability certifications and sits on top of existing platforms with its people-first approach and by being the first standard of its kind to focus solely on the health and wellness of building occupants. WELL is premised on a holistic view of human health in the built environment addressing behavior, operations and design. ISOMAT's waterproofing products help buildings earn points in various WELL concepts, namely by limiting the growth of bacteria and mold due to water infiltration and condensation in the building (Water: Moisture Management), by providing opportunities for on-site food production by supporting a variety of garden plants and herbs on green roofs (Nourishment: Food Production), and by ensuring thermal comfort in winter and summer (Thermal Comfort: Thermal Performance), as discussed above.

Finally, placing high-quality products on the market is a fundamental value for ISOMAT. Producing and distributing durable, long-lasting materials means sustainable buildings with a longer expected service life and reduced environmental impacts. The longer the useful life of the building materials used, the longer it be before they need to be repaired or replaced, thus reducing the need for transportation, the carbon footprint of producing new materials, and the discarded products. In this way, not only is the sustainability of the built environment improved, but also the necessary measures are taken to minimize the impact on the environment.



## Case: Waterproofing of flat roofs subject to short-term ponding

Recommended solution: Hybrid, elastomeric, liquid waterproofing membrane

3

### Waterproofing with **ISOFLEX-HYBRID**

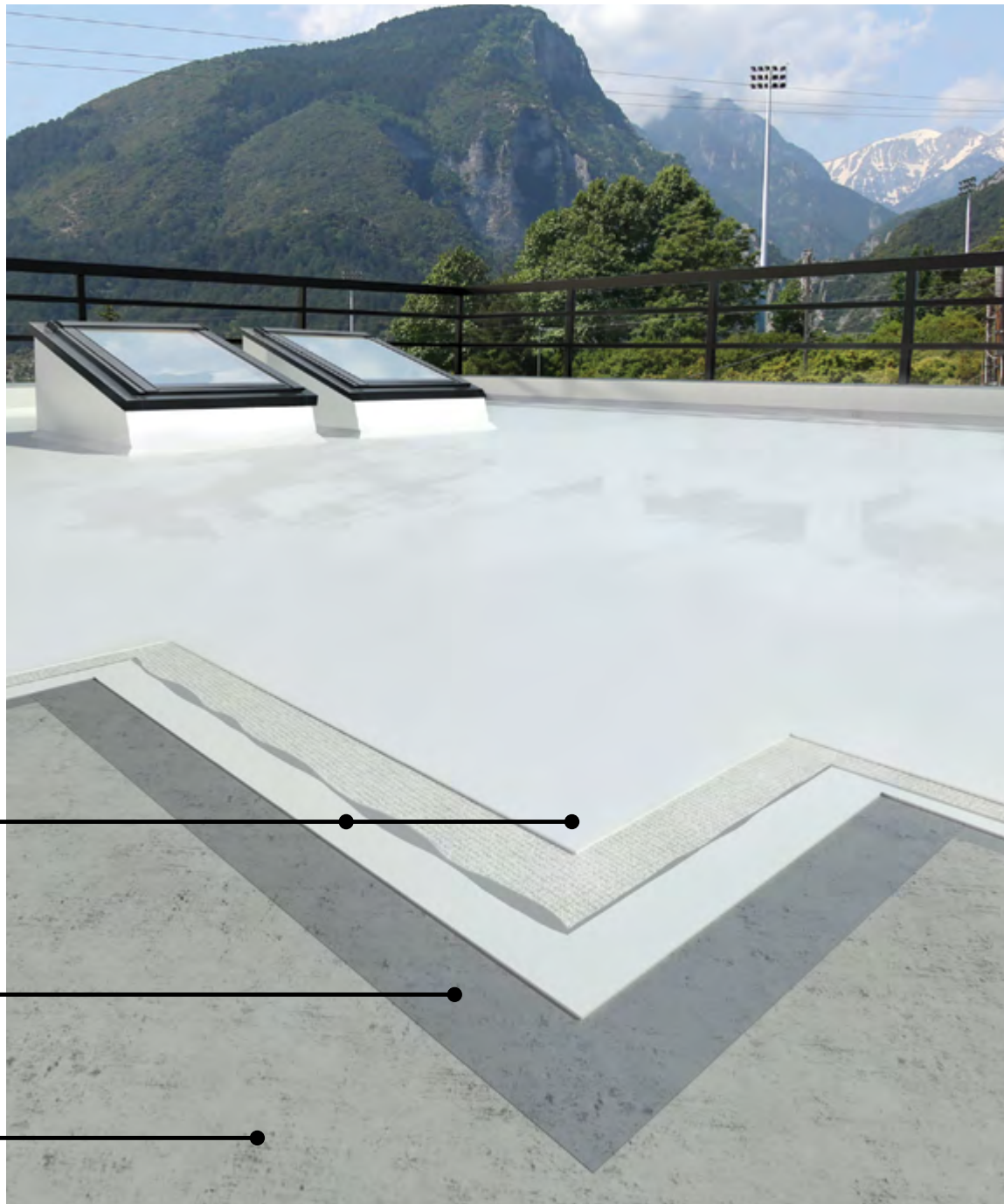
(optionally reinforced with polyester fleece, depending on the substrate)

2

### Priming with **ISO-PRIMER**

1

### Sloped concrete/screed



## Products:



ISO-PRIMER



ISOFLEX-HYBRID



PSF 30 / PSF 60

## Case: Flat roof waterproofing over old bituminous membranes

Recommended solution: Hybrid, elastomeric, liquid waterproofing membrane subject to short-term ponding

02



3

Waterproofing with  
**ISOFLEX-HYBRID**  
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

2

Priming with  
**ISO-PRIMER**

1

Bituminous  
waterproofing  
membranes  
coated with granules

### Products:



ISO-PRIMER



ISOFLEX-HYBRID



PSF 30 / PSF 60

## Case: Waterproofing of flat roofs subject to long-term ponding

Recommended solution: Polyurethane liquid waterproofing membrane

4

Waterproofing  
roof details with  
**ISO FLEX-PU 500 DTL**

3

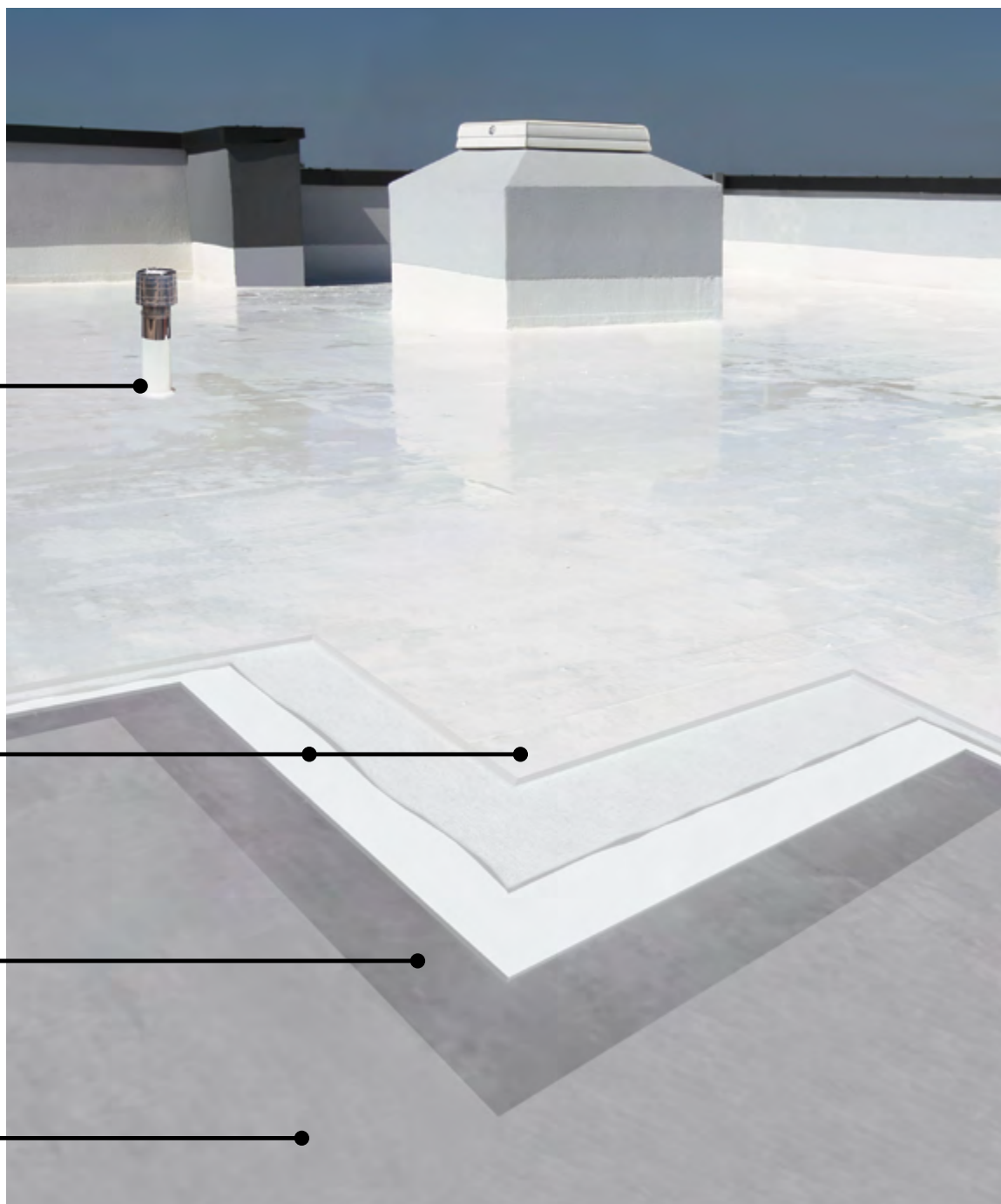
Waterproofing with  
**ISO FLEX-PU 500**  
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed



### Products:



PRIMER-PU 100



ISO FLEX-PU 500



PSF 60 / PSF 120

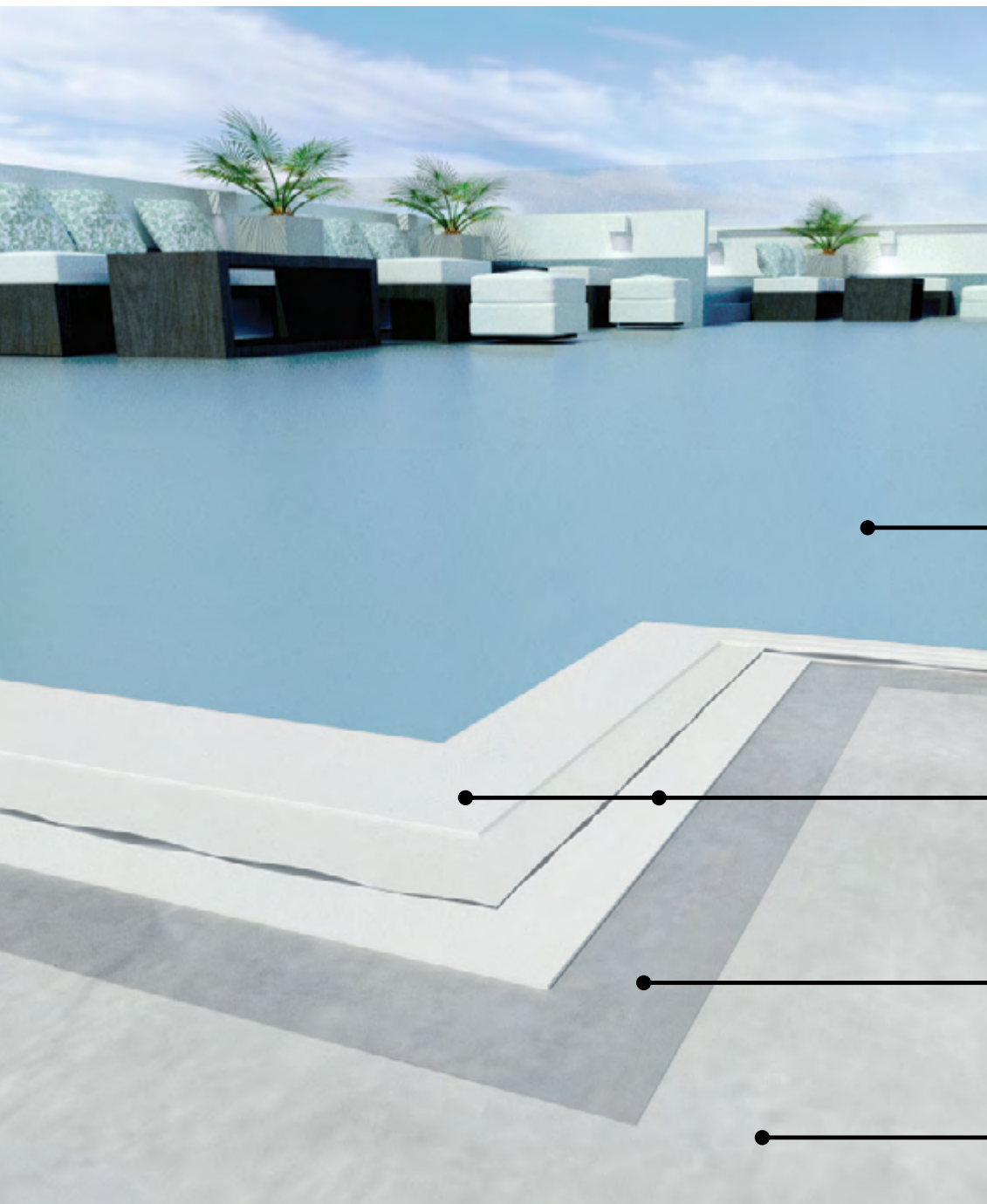


ISO FLEX-PU 500 DTL

## Case: Waterproofing and protection of utility flat roofs

Recommended solution: Waterproofing with polyurethane liquid waterproofing membrane and coating with polyurethane topcoat

04



4

Application of the  
protective coating  
**TOPCOAT-PU 720**

3

Waterproofing with  
**ISOFLX-PU 500**  
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed

### Products:



PRIMER-PU 100



ISOFLX-PU 500



PSF 60 / PSF 120



TOPCOAT-PU 720

## Case: Fast-track waterproofing and protection of large industrial flat roofs

Recommended solution: Waterproofing with polyurea waterproofing membrane and coating with polyaspartic topcoat

4

Application of the  
protective coating  
**TOPCOAT-PAS 760**

3

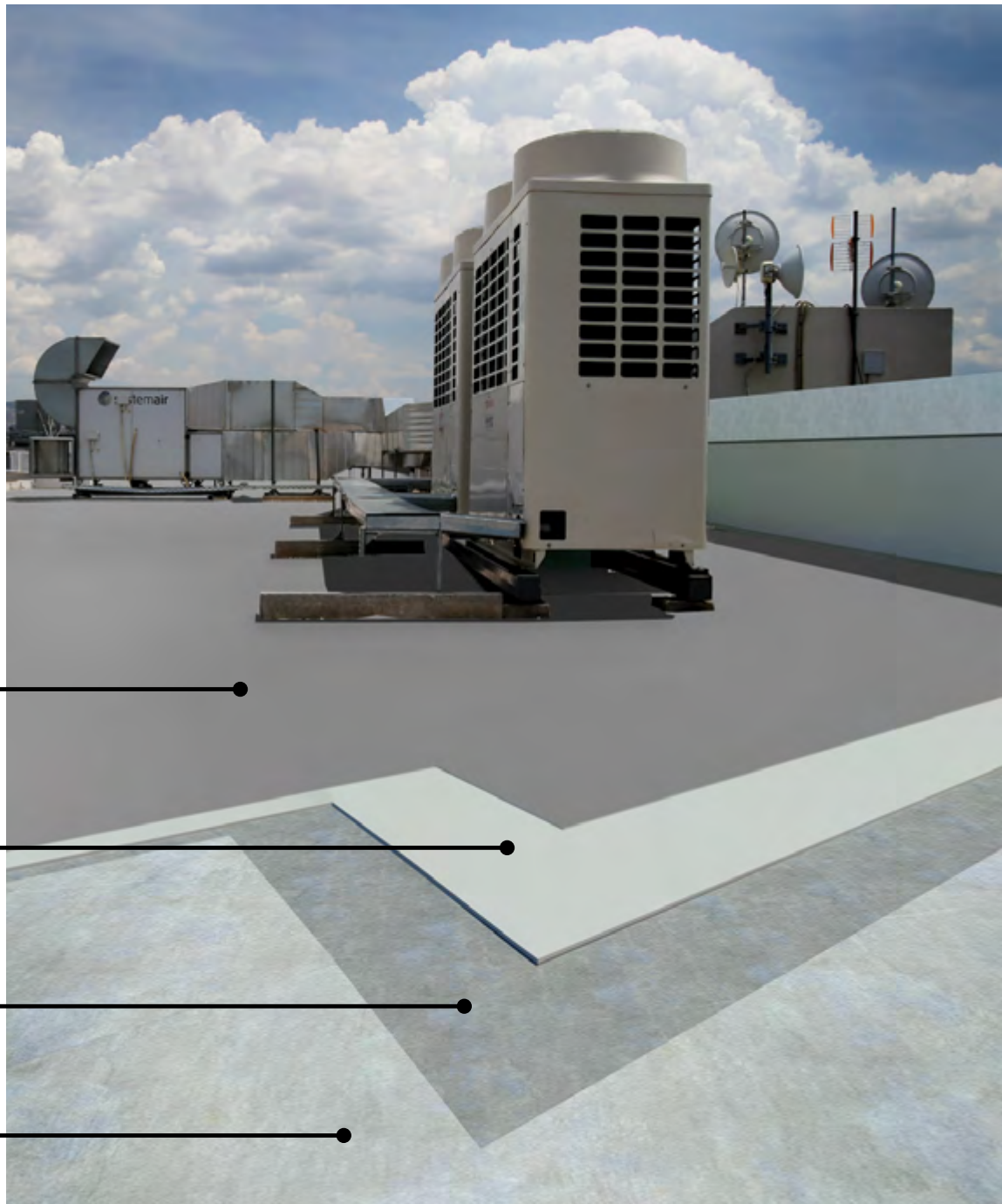
Waterproofing with  
**ISOMAT-PUA 1240**

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed



### Products:



PRIMER-PU 100



ISOMAT-PUA 1240

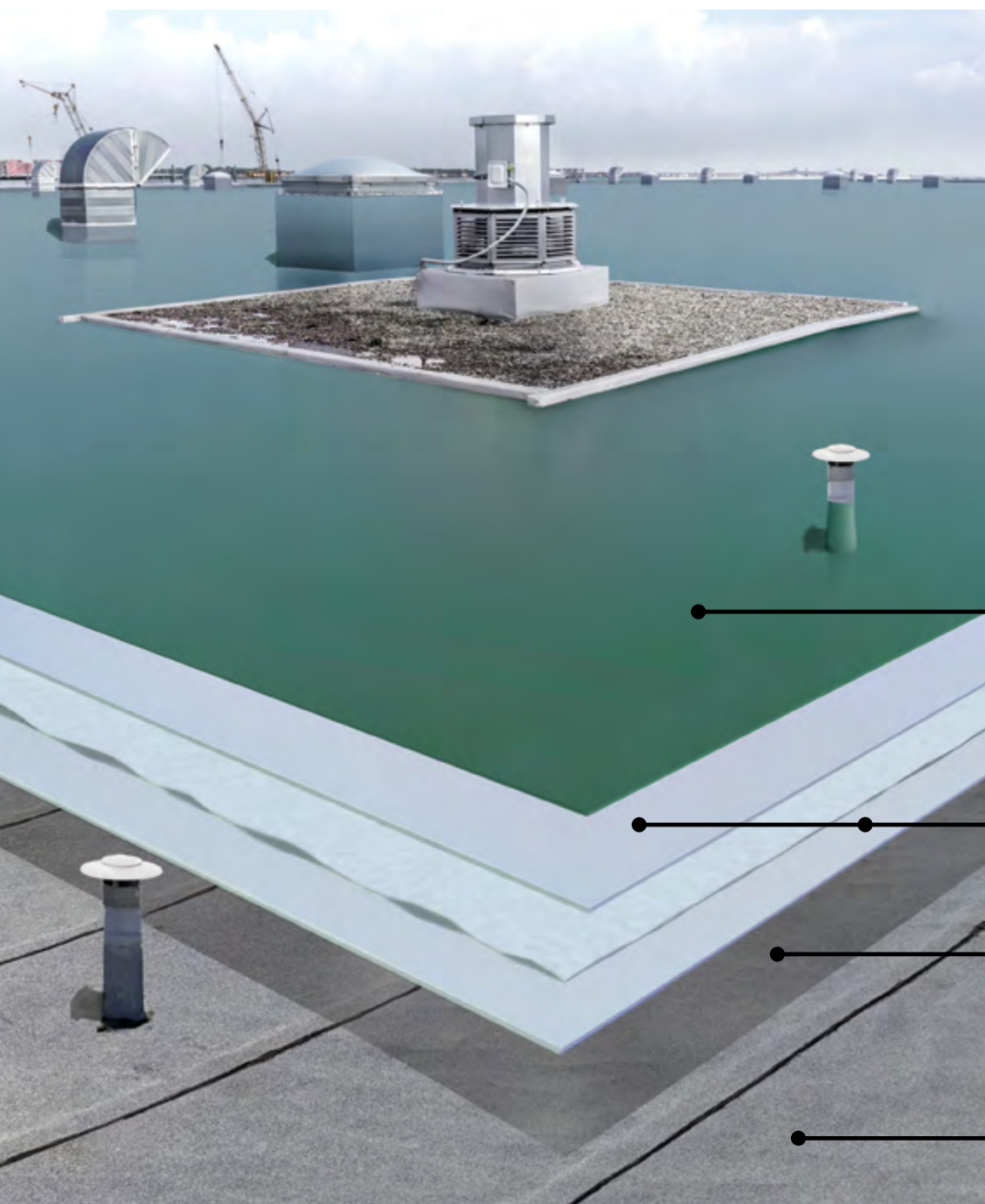


TOPCOAT-PAS 760

## Case: Flat roof waterproofing and protection over old bituminous membranes

Recommended solution: Waterproofing with polyurethane liquid waterproofing membrane and coating with polyurethane topcoat

06



4

Application of the protective coating  
**TOPCOAT-PU 720**

3

Waterproofing with  
**ISOFLEX-PU 500 A**  
(reinforced with polyester  
fleece, depending on the  
substrate)

2

Priming with  
**EPOXYPRIMER-500**

1

Bituminous waterproofing  
membranes  
coated with granules

### Products:



EPOXYPRIMER-500



ISOFLEX-PU 500 A



PSF 60 / PSF 120



TOPCOAT-PU 720

## Case: Car park deck waterproofing and coating

Recommended solution: Waterproofing with polyurethane liquid waterproofing membrane and coating with polyurethane topcoat

5

Application of the  
protective coating  
**TOPCOAT-PU 720**

4

Quartz sand  
broadcasting  
for slip resistance

3

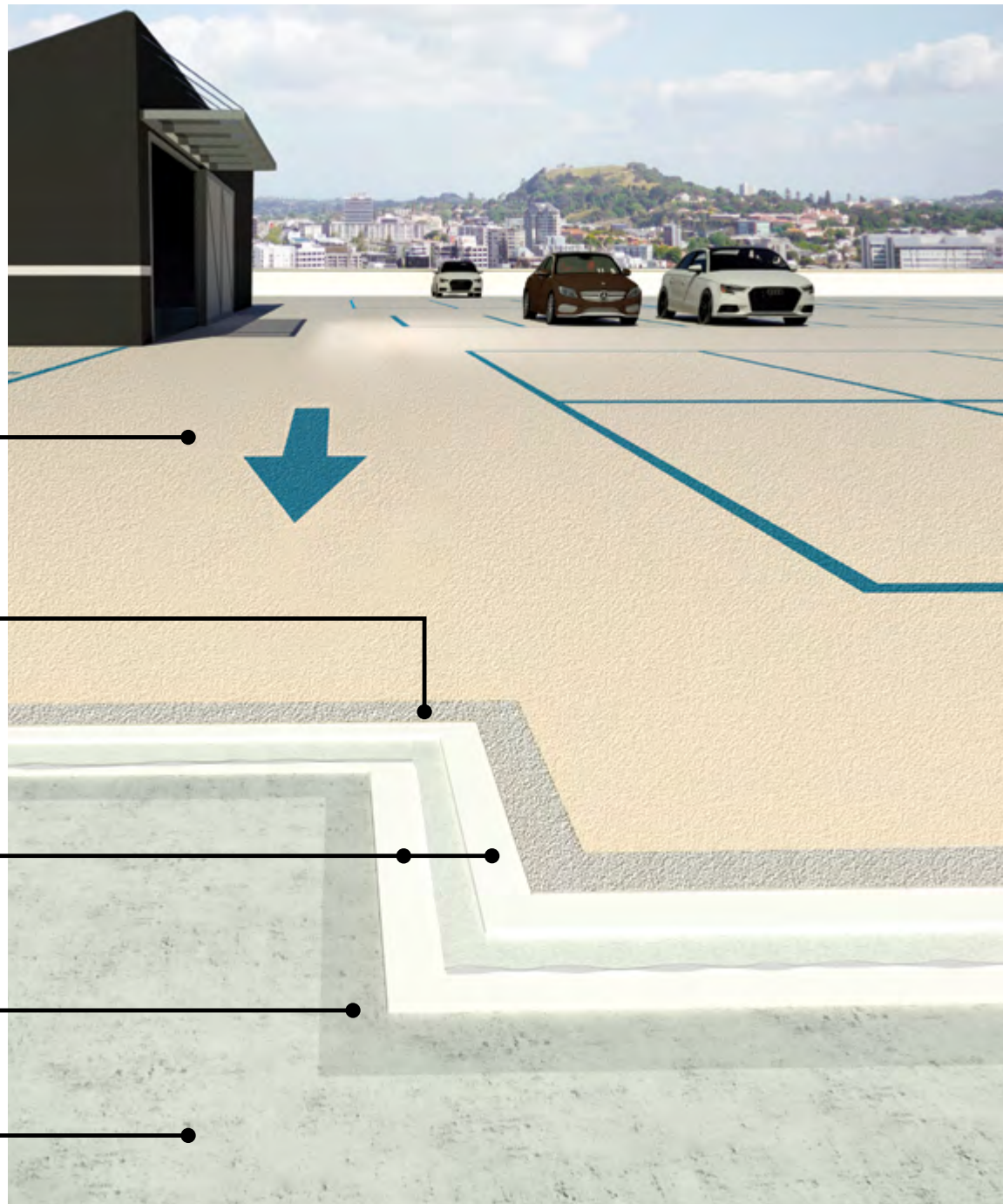
Waterproofing with  
**ISOFLEX-PU 500 A**  
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed



### Products:



PRIMER-PU 100



ISOFLEX-PU 500 A



PSF 60 / PSF 120

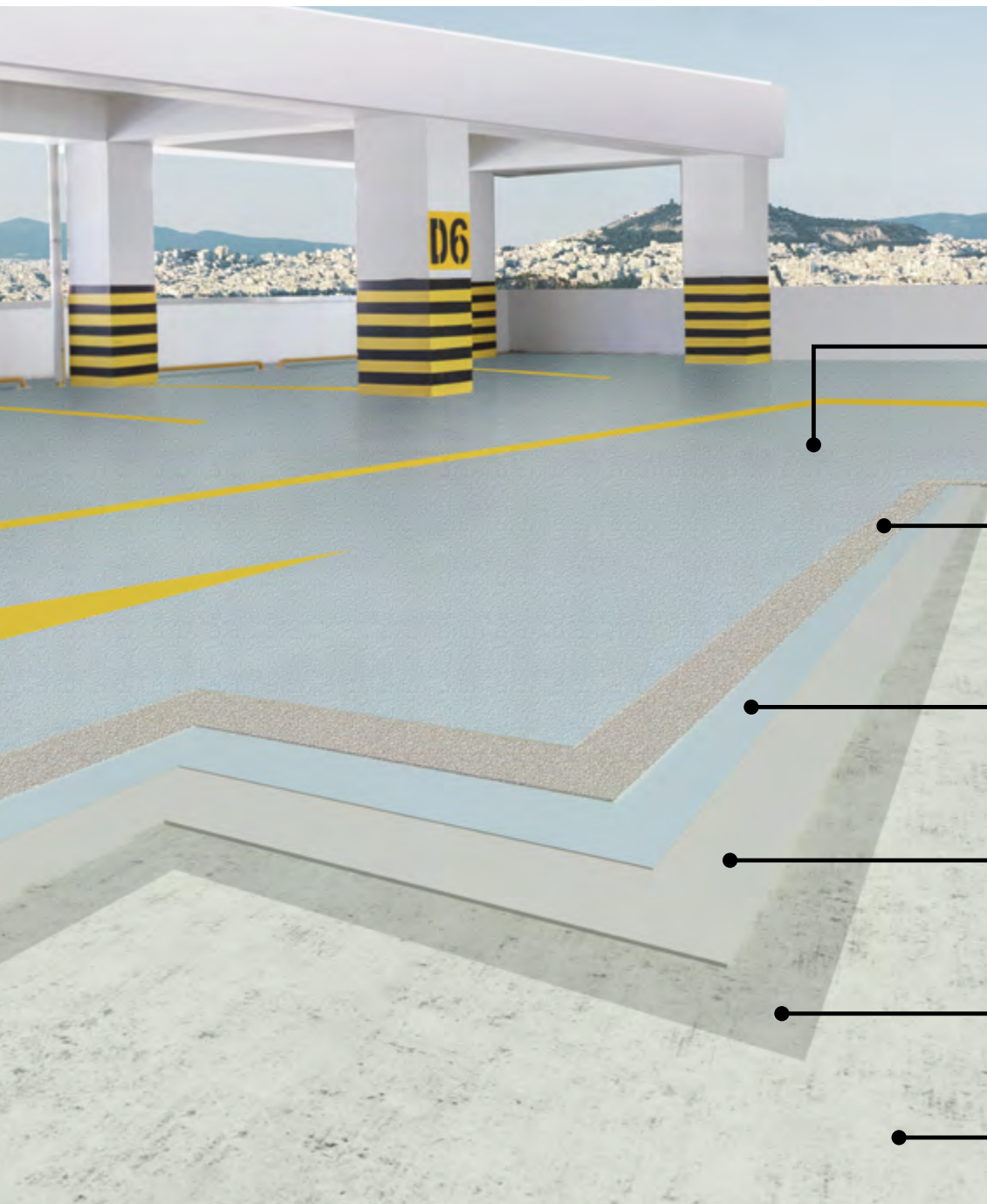


TOPCOAT-PU 720

## Case: Fast-track car park deck waterproofing and coating

Recommended solution: Waterproofing with polyurea waterproofing membrane and coating with polyaspartic topcoat

08



6

Application of the protective coating  
**TOPCOAT-PAS 760**

5

Quartz sand  
broadcasting  
for slip resistance

4

Application of the protective coating  
**TOPCOAT-PAS 760**

3

Waterproofing with  
**ISOMAT-PUA 1360**

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed

### Products:



PRIMER-PU 100



ISOMAT-PUA 1360



TOPCOAT-PAS 760

## Case: Under-tile waterproofing

Recommended solution: Polyurethane liquid waterproofing membrane

6

Grouting with  
**MULTIFILL-SMALTO 1-8**

5

Tiling with  
**ISOMAT AK-22**

4

Quartz sand broadcasting  
for improved adhesion

3

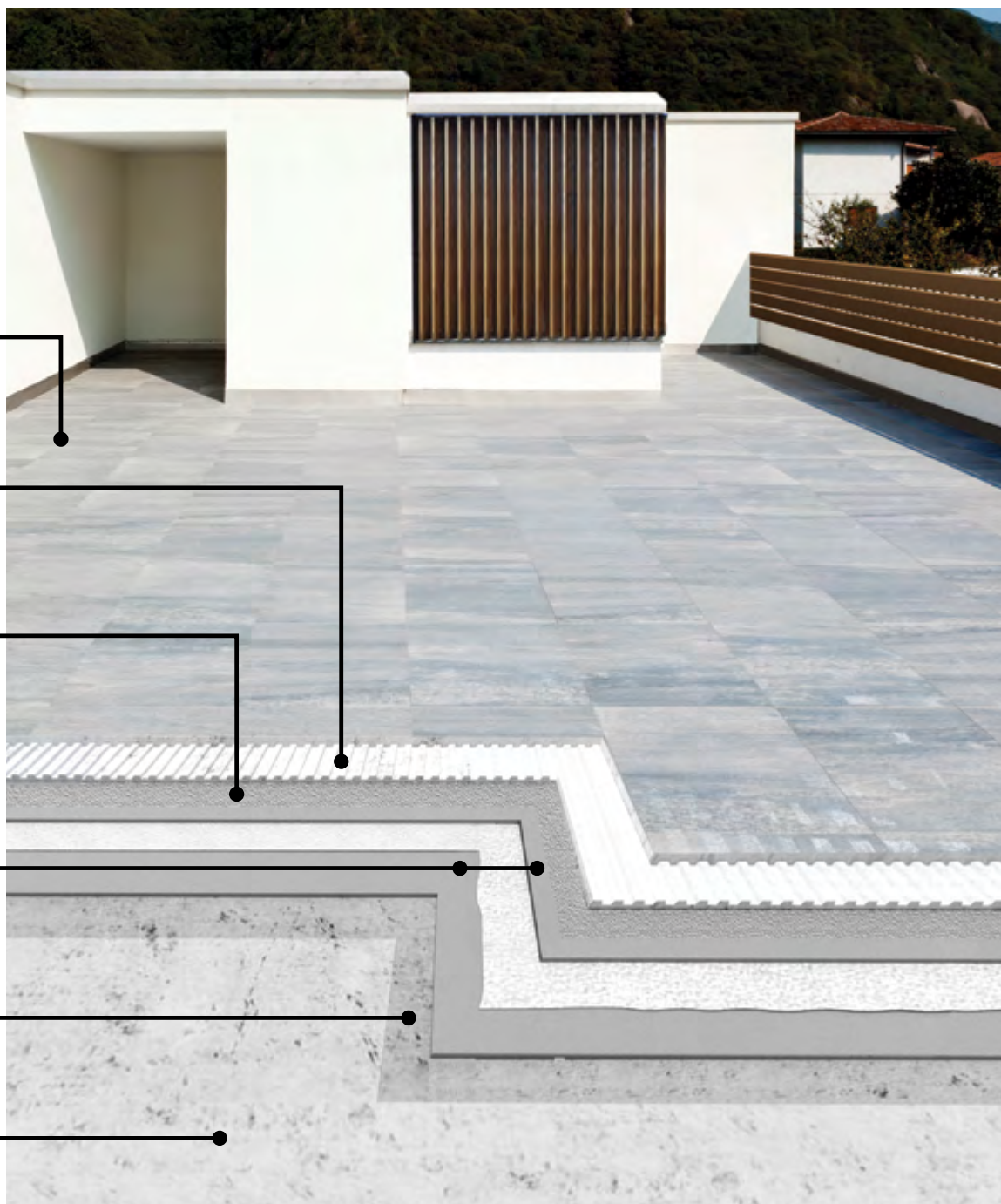
Waterproofing with  
**ISOFLEX-PU 540**  
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed



### Products:



PRIMER-PU 100



ISOFLEX-PU 540



PSF 60 / PSF 120



ISOMAT AK-22

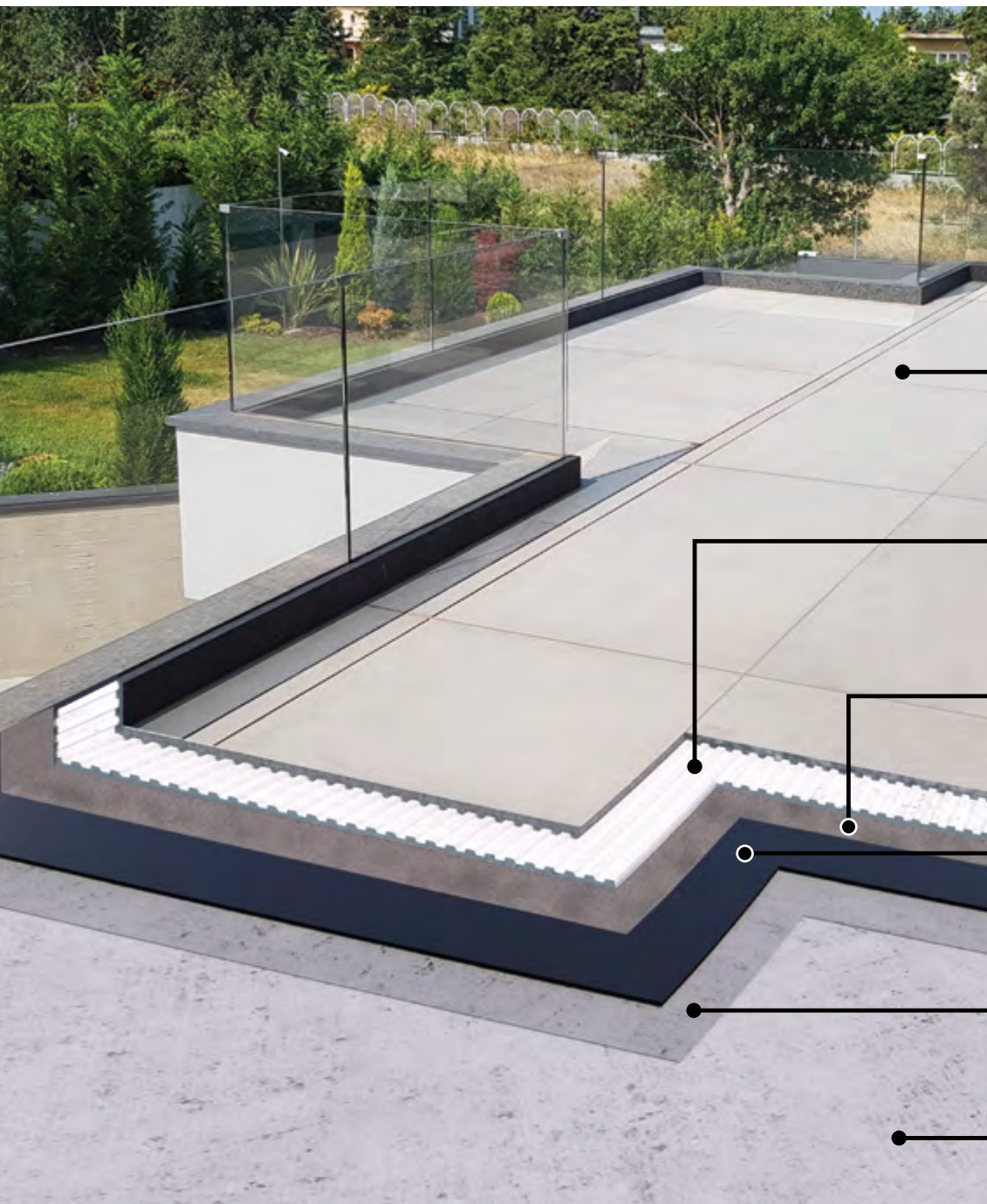


MULTIFILL-SMALTO 1-8

## Case: Under-tile waterproofing

Recommended solution: Polyurethane-bituminous liquid waterproofing membrane

10



6

Grouting with  
**MULTIFILL-  
DIAMOND 1-12**

5

Tiling with  
**ISOMAT AK-24  
CRYSTAL GEL**

4

Quartz sand broadcasting  
for improved adhesion

3

Waterproofing with  
**ISOFLEX-PU 570 BT**

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed

### Products:



**PRIMER-PU 100**



**ISOFLEX-PU 570 BT**



**ISOMAT AK-24  
CRYSTAL GEL**



**MULTIFILL-  
DIAMOND 1-12**

## Case: Flat roof or balcony waterproofing and finishing with decorative stone carpet flooring

Recommended solution: Polyurethane liquid waterproofing membrane

**5**

Protective layer with  
**ISO FLEX-PU 650**  
(optionally)

**4**

Application of  
**ISO FLEX-PU 650** mixed  
with **ISOMAT NATURAL  
COLORED STONES**

**3**

Waterproofing with  
**ISO FLEX-PU 500**  
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

**2**

Priming with  
**PRIMER-PU 100**

**1**

Sloped concrete/screed



### Products:



PRIMER-PU 100



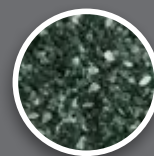
ISO FLEX-PU 500



PSF 60 / PSF 120



ISO FLEX-PU 650



ISOMAT NATURAL  
COLORED STONES

## Case: Flat roof or balcony waterproofing and coating with decorative flake flooring

Recommended solution: Polyurethane liquid waterproofing membrane

12



6

Sealing and protection with **ISOFLEX-PU 650**

5

**ISOMAT DECO-FLAKES** broadcasting

4

Application of the protective coating **TOPCOAT-PU 720**

3

Waterproofing with **ISOFLEX-PU 500**  
(optionally reinforced with polyester fleece, depending on the substrate)

2

Priming with **PRIMER-PU 100**

1

Sloped concrete/screed

### Products:



PRIMER-PU 100



ISOFLEX-PU 500



TOPCOAT-PU 720



ISOFLEX-PU 650



ISOMAT  
DECO-FLAKES

## Case: Green roof waterproofing

Recommended solution: Polyurethane liquid waterproofing membrane

5

Vegetation layer

4

Geotextile and  
drainage membrane

3

Waterproofing with  
**ISOFLEX-PU 500**

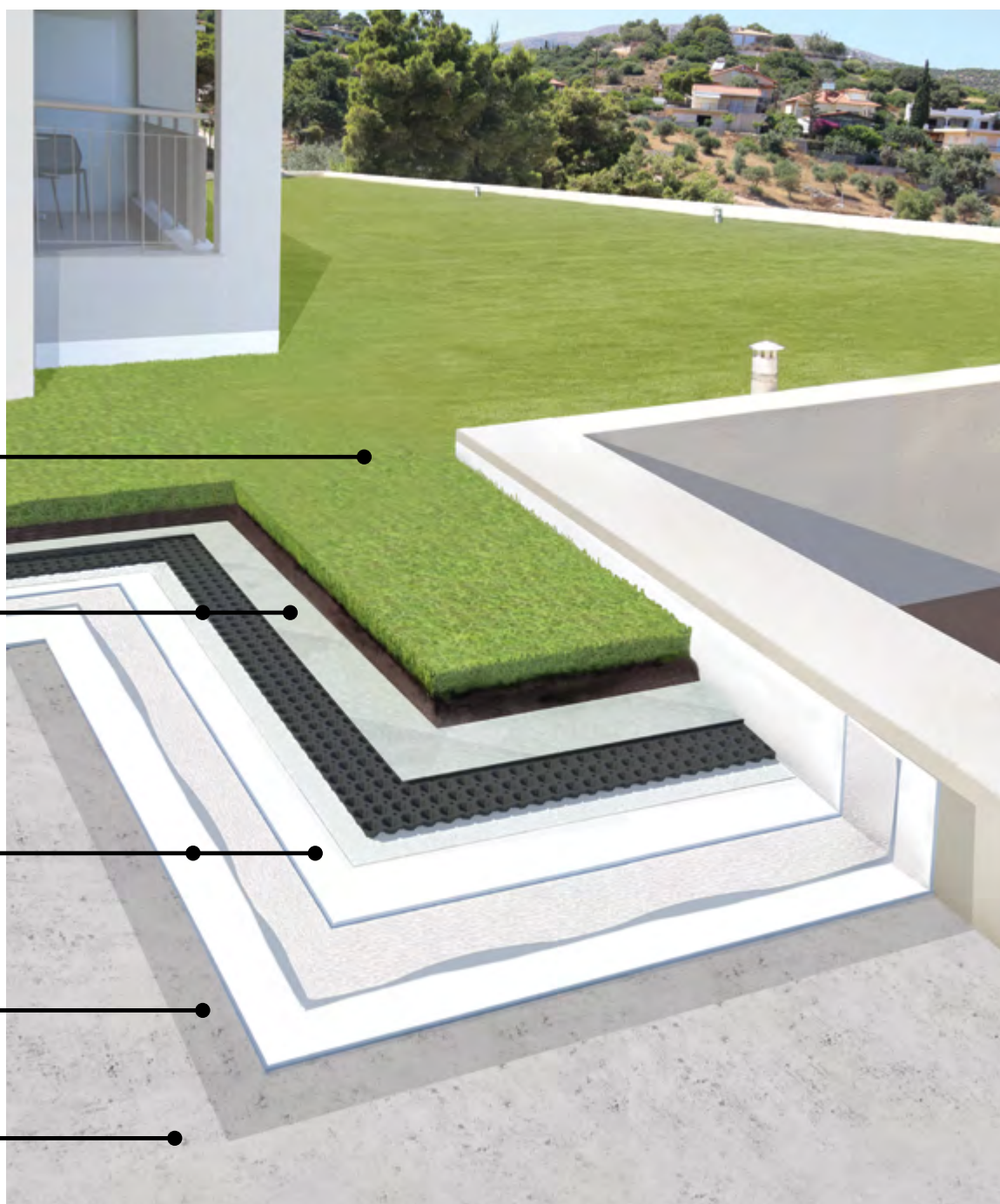
(optionally reinforced with  
polyester fleece, depending  
on the substrate)

2

Priming with  
**PRIMER-PU 100**

1

Sloped concrete/screed



### Products:



PRIMER-PU 100



ISOFLEX-PU 500



PSF 60 / PSF 120

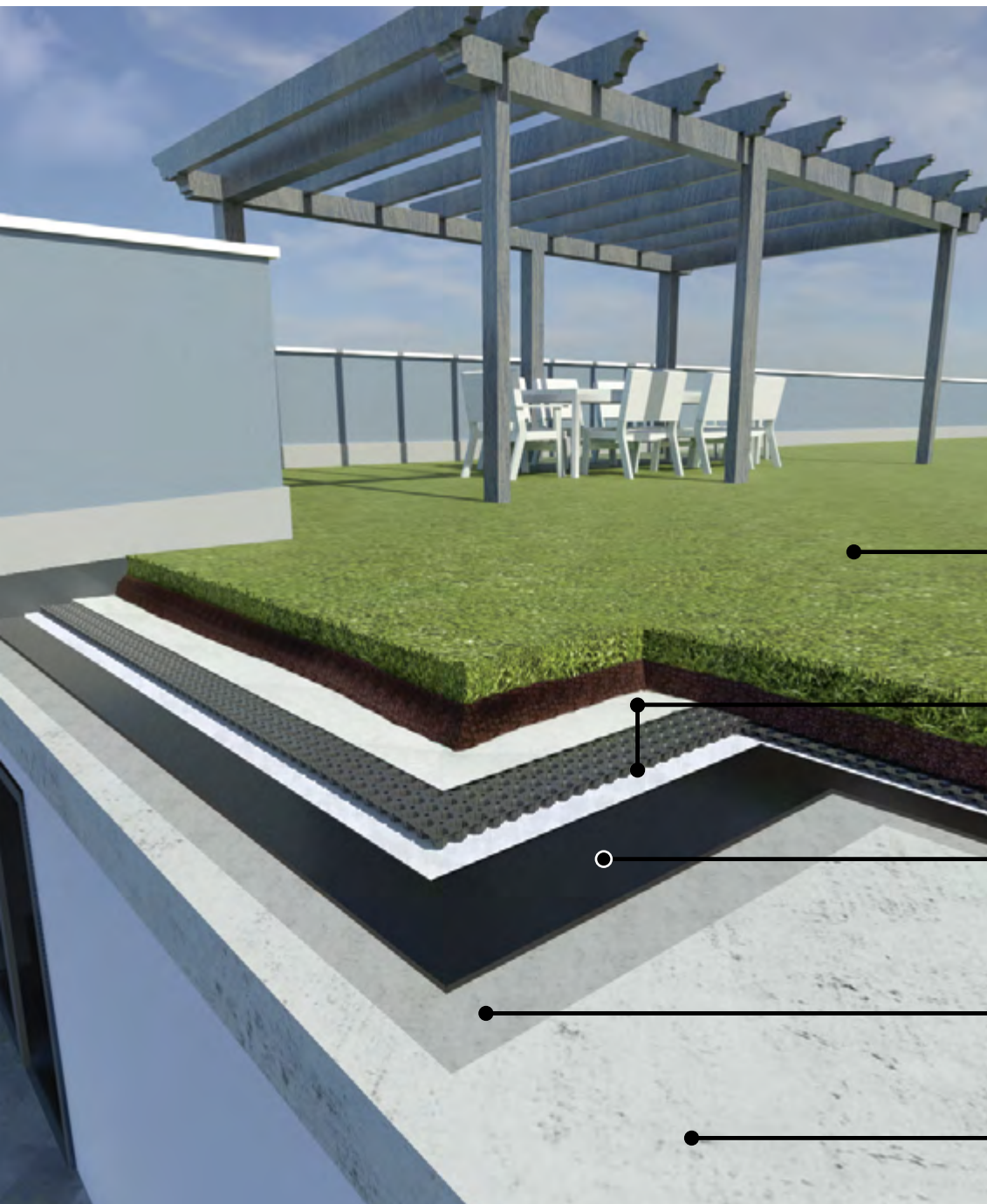


GEOTEXTILE

## Case: Green roof waterproofing

Recommended solution: Polyurethane-bituminous liquid waterproofing membrane

14



5

Vegetation layer

4

Geotextile and  
drainage membrane

3

Waterproofing with  
ISOFLX-PU 560 BT

2

Priming with  
PRIMER-PU 100

1

Sloped concrete/screed

### Products:



PRIMER-PU 100



ISOFLX-PU 560 BT



GEOTEXTILE

## Case: Waterproofing of flat roofs covered with gravel or roof plates

Recommended solution: Polyurethane liquid waterproofing membrane

6

Gravel or roof plates

5

Geotextile

4

Thermal insulation board

3

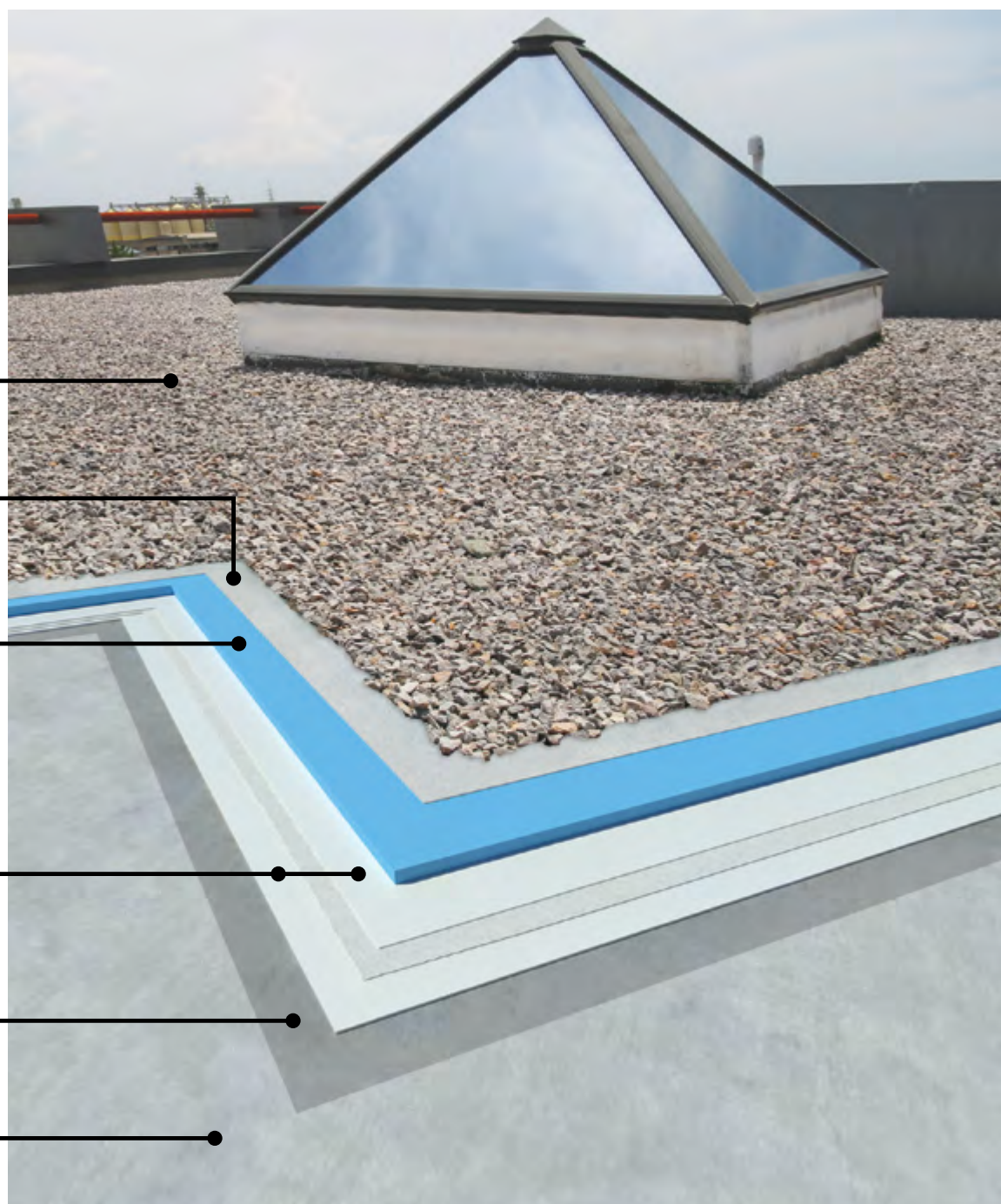
Waterproofing with **ISOFLEX-PU 510**  
(optionally reinforced with polyester fleece, depending on the substrate)

2

Priming with **PRIMER-PU 100**

1

Sloped concrete/screed



### Products:



PRIMER-PU 100



ISOFLEX-PU 510



PSF 60 / PSF 120

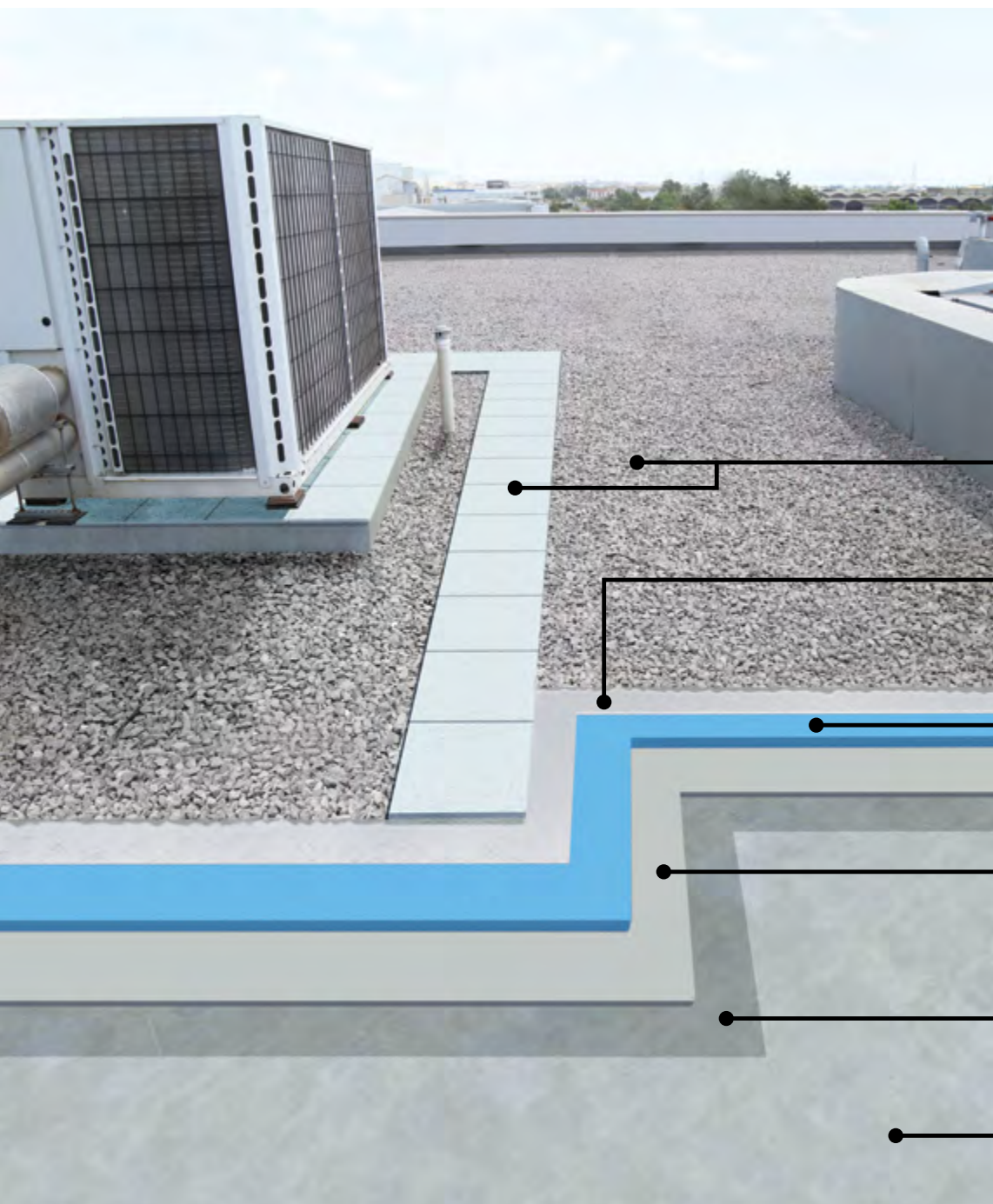


GEOTEXTILE

Case: Fast-track waterproofing of flat roofs covered with gravel or roof plates

Recommended solution: Polyurea waterproofing membrane

16



6  
Gravel or roof plates

5  
Geotextile

4  
Thermal insulation board

3  
Waterproofing with ISOMAT-PUA 1240

2  
Priming with PRIMER-PU 100

1  
Sloped concrete/screed

Products:



PRIMER-PU 100



ISOMAT-PUA 1240



GEOTEXTILE

## Case: Waterproofing and protection of metal roofs

Recommended solution: Waterproofing with polyurethane liquid waterproofing membrane and coating with polyurethane topcoat

4

Application of the  
protective coating  
**TOPCOAT-PU 710**

3

Waterproofing with  
**ISOFLEX-PU 500**  
(locally reinforced  
with polyester fleece)

2

Priming with  
**EPOXYCOAT-AC**

1

Metal roof



### Products:



EPOXYCOAT-AC



ISOFLEX-PU 500



PSF 60 / PSF 120



TOPCOAT-PU 710

## Case: Fast-track waterproofing and protection of metal roofs

Recommended solution: Waterproofing with polyurea waterproofing membrane and coating with polyaspartic topcoat

18



4

Application of the  
protective coating  
**TOPCOAT-PAS 760**

3

Waterproofing with  
**ISOMAT-PUA 1240**

2

Priming with  
**EPOXYCOAT-AC**

1

Metal roof

### Products:



EPOXYCOAT-AC



ISOMAT-PUA 1240



TOPCOAT-PAS 760

## WATER-BASED ELASTOMERIC LIQUID WATERPROOFING MEMBRANES



### ISOFLEX-HYBRID

**Hybrid, elastomeric, liquid waterproofing membrane based on acrylic and polyurethane resins, for flat roofs**

Elastomeric, water-based, liquid waterproofing membrane for flat roofs based on acrylic and polyurethane resins. Forms a seamless and jointless white membrane of high elasticity and durability. Highly resistant to short-term ponding water, weather conditions, UV radiation and low temperatures.

Packaging: 1 kg, 4 kg, 13 kg, 25 kg in white.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.

## POLYURETHANE LIQUID WATERPROOFING MEMBRANES



### ISOFLEX-PU 500

**One-component, polyurethane, liquid waterproofing membrane**

One-component, polyurethane, liquid waterproofing membrane ideal for highly demanding flat roofs and balconies, offering excellent mechanical, chemical, thermal, UV and weather resistance properties, along with excellent resistance to long-term ponding water. Forms an elastic, vapor-permeable and durable membrane without seams or joints. Applicable even to uneven substrates. Suitable also for green roofs, exposed park decks, bridge decks, metal roofs, etc.

Packaging: 1 kg, 6 kg, 12 kg, 25 kg in white, grey. Other colors upon order, minimum quantity 200 kg.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.



### ISOFLEX-PU 510

**One-component, polyurethane, liquid waterproofing membrane**

One-component, polyurethane, liquid waterproofing membrane for flat roofs and balconies, offering excellent mechanical, chemical, thermal, UV and weather resistance properties, along with excellent resistance to long-term ponding water. Forms an elastic and vapor-permeable membrane without seams or joints. Applicable even to uneven substrates. Suitable also for green roofs, bridge decks, metal roofs, etc.

Packaging: 6 kg, 25 kg in white. Other colors upon order, minimum quantity 200 kg.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.



### ISOFLEX-PU 500 A

**Rapid-curing, one-component, polyurethane, liquid waterproofing membrane**

One-component, rapid-curing, polyurethane, liquid waterproofing membrane for flat roofs and balconies. Forms a highly elastic and vapor-permeable membrane without seams or joints. Offers exceptional mechanical, chemical, thermal, and weather resistance properties. Applicable even to uneven substrates and at low temperatures. After application, it becomes rapidly resistant to rain damage.

Packaging: 25 kg in grey. Other colors upon order, minimum quantity 200 kg.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.



### **ISO FLEX-PU 500 DTL**

**Fiber-reinforced, thixotropic, one-component, polyurethane, liquid waterproofing membrane**

One-component, fiber-reinforced, thixotropic, polyurethane, liquid waterproofing membrane with mechanical, chemical, thermal, UV and weather resistance. Forms an elastic and vapor-permeable membrane without seams or joints. Offers excellent adhesion to a variety of substrates, such as concrete, screed, metal, wood and most waterproofing membranes. Ideal for complex structures and roof details (wall-floor junctions, pipes, chimneys, ventilation and air-conditioning units, solar panels, etc.).

Packaging: 1 kg, 5 kg in white.

Consumption: 1.2 - 1.5 kg/m<sup>2</sup>.



### **ISO FLEX-PU 540**

**One-component, polyurethane, liquid waterproofing membrane**

One-component, polyurethane liquid waterproofing membrane. Suitable for under-tile waterproofing of wet areas (bathrooms and kitchens), balconies, auxiliary rooms, etc., as long as quartz sand has been previously broadcast on its last layer. Also used for waterproofing of flat roofs, balconies, foundations and under thermal insulation boards on flat roofs. When applied on exposed surfaces, the use of TOPCOAT-PU 710 or TOPCOAT-PU 720 is required.

Packaging: 25 kg in black. Grey upon order, minimum quantity 200 kg.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.



### **ISO FLEX-PU 550**

**Solvent-free, 2-component, polyurethane, liquid waterproofing membrane**

Two-component, polyurethane, liquid waterproofing membrane without solvents. Suitable for waterproofing under tiles in kitchens, bathrooms, balconies, roofs and flat roofs as long as quartz sand has been previously broadcast on its last layer, under thermal insulation boards on flat roofs, potable water tanks, etc. Ideal for indoor use, as it is almost odorless.

Packaging: 12.5 kg (A+B) in beige.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.



### **ISO FLEX-PU 560 BT**

**Ultra-elastic, polyurethane-bituminous, 2-component, liquid waterproofing membrane**

Two-component, polyurethane-bituminous liquid waterproofing membrane for waterproofing underground structures (e.g. foundations), green roofs, non-potable water tanks, irrigation channels, under tiles in kitchens, bathrooms, flat roofs, etc., under thermal insulation boards on flat roofs, etc. Consists of hydrophobic polyurethane resins (comp. A) and bitumen (comp. B). The membrane shows high elasticity and excellent mechanical and chemical resistance.

Packaging: 10 l (A+B), 40 l (A+B) in black.

Consumption: 1.2 - 2.0 l/m<sup>2</sup>.

## POLYURETHANE LIQUID WATERPROOFING MEMBRANES



### ISOFLEX-PU 570 BT

#### One-component, polyurethane-bituminous, liquid waterproofing membrane

One-component, polyurethane-bituminous, liquid waterproofing membrane for waterproofing underground structures (e.g. foundations), green roofs, non-potable water tanks, irrigation channels, etc. Also suitable for under-tile waterproofing of kitchens, bathrooms, balconies, flat roofs and terraces with prior quartz sand broadcasting on its last layer. Forms an elastic membrane, without joints or seams, providing high mechanical and chemical resistance. Has excellent adhesion to a variety of substrates, such as concrete, cement screed, bituminous membranes, etc.

Packaging: 5 kg, 23 kg in black.

Consumption: 1.3 - 2.0 kg/m<sup>2</sup>.



### ISOFLEX-PU 600

#### Fast-curing, UV-stable, one-component, polyurethane, liquid waterproofing membrane

One-component, fast-curing, aliphatic, polyurethane, liquid waterproofing membrane. Forms an elastic and vapor-permeable membrane without seams or joints. Shows excellent resistance to weather conditions, high mechanical strength and chemical resistance. It is UV-stable, meaning it features non-yellowing properties, and does not require any additional coating.

Packaging: 25 kg in white.

Consumption: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.



### ISOFLEX-PU 650

#### UV-stable, transparent, one-component, polyurethane, liquid waterproofing membrane & stone carpet binder

Transparent, aliphatic, polyurethane, liquid membrane used for waterproofing and protection of various existing surfaces, such as old tile layers, natural stone, wood, glass blocks, plastic materials, etc. Delivers a glossy, durable finish that won't turn yellow over time or alter the appearance of the surface. Shows exceptional mechanical strength and chemical resistance. Also used as a resin binder for exterior or interior decorative stone carpet floorings with ISOMAT NATURAL COLORED STONES and as a sealing membrane over decorative flake floorings.

Packaging: 1 kg, 5 kg, 20 kg, transparent.

Consumption: As Stone Carpet binder: 0.75 - 1.5 kg/m<sup>2</sup>/cm, depending on the mixing ratio with ISOMAT NATURAL COLORED STONES.

As a sealing layer (e.g. Flake Flooring): 250 - 300 g/m<sup>2</sup>

As a waterproofing layer: 0.8 - 1.2 kg/m<sup>2</sup> in 2-3 layers

## COLD-APPLIED POLYUREAS



### ISOFLEX-PAS 660

#### UV-stable, 2-component, cold-applied polyurea waterproofing membrane

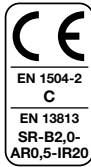
Two-component, aliphatic, cold-applied (polyaspartic) membrane. Ideal for use as an exposed waterproofing layer on flat roofs and balconies and as a protective layer over aromatic hot spray-applied polyurea. Shows fast-curing times, high mechanical and chemical strength while being UV-stable.

Packaging: 5 kg (A+B), 25 kg (A+B) in white.

Consumption: As a waterproofing layer: 1.0 - 2.5 kg/m<sup>2</sup>, depending on substrate and reinforcement type.

As a protective layer: 300 - 400 g/m<sup>2</sup>/layer.

## HOT SPRAY-APPLIED POLYUREAS



### ISOMAT-PUA 1360

#### Two-component, highly elastic, hot spray-applied, pure polyurea waterproofing membrane

Two-component, highly elastic, ultra fast-curing, hot spray-applied, pure polyurea waterproofing membrane, well-suited for vibrating substrates. Used as a non-exposed waterproofing layer on flat roofs, metal roofs, tanks, swimming pools, etc. Also suitable for use as a protective coating on floors in industrial facilities, in entertainment venues, warehouses, etc. Also recommended for waterproofing of industrial refrigerators. Features excellent mechanical and chemical resistance. Ideal where fast work and immediate return-to-service are required.

Packaging: 400 kg (A+B) in grey.

Consumption: 2.0 - 2.2 kg/m<sup>2</sup>, depending on the substrate.



### ISOMAT-PUA 1240

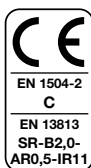
#### Two-component, highly elastic, hot spray-applied, hybrid polyurea waterproofing membrane

Two-component, highly elastic, ultra fast-curing, hot spray-applied, hybrid polyurea waterproofing membrane. Intended for use as a non-exposed layer in plenty of waterproofing applications and especially where high mechanical and chemical resistance and fast work are required. Well-suited for waterproofing of roofs, balconies and terraces, inverted and green roofs, bridges, stadiums, arenas, etc. Ideal where fast work and immediate return-to-service are required.

Packaging: 400 kg (A+B) in grey.

Consumption: 2.0 - 2.2 kg/m<sup>2</sup>, depending on the substrate.

## PROTECTIVE COATINGS



### TOPCOAT-PAS 760

#### Fast-curing, UV-stable, solvent-free, two-component, polyaspartic protective coating

Two-component, pigmented, elastic, aliphatic, polyaspartic (cold polyurea) protective coating. It is solvent-free and low-VOC. For use as a protective floor coating in industries, warehouses, garages, etc., where immediate return-to-service is required. Also applied over epoxy, PU, or decorative flooring systems as well as over aromatic hot-applied polyurea, indoors and outdoors. Offers high mechanical and chemical strength, excellent UV stability and fast-curing times.

Packaging: 7 kg (A+B), 25 kg (A+B) in grey.

Consumption: 250 - 400 g/m<sup>2</sup>/layer.



### TOPCOAT-PU 710

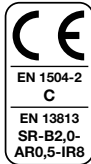
#### Elastic, UV-stable, one-component, polyurethane protective coating

For use over aromatic polyurethane liquid waterproofing membranes to provide increased UV protection and color stability. Easy-to-apply and resistant to temperature variations.

Packaging: 5 kg, 15 kg in white.

Consumption: 0.12 - 0.25 kg/m<sup>2</sup>.

## PROTECTIVE COATINGS



### TOPCOAT-PU 720

**Pigmented, elastic, UV-stable, one-component, polyurethane protective coating**

For use over polyurethane liquid waterproofing membranes for protection against solar radiation (UV), especially if a dark final color is desired. Suitable also in cases where the polyurethane waterproofing coatings are subject to pedestrian traffic and light vehicular traffic (e.g. parking decks).

Packaging: 1 kg, 5 kg, 20 kg in white, grey. Other colors upon order, minimum quantity 160 kg.

Consumption: 0.12 - 0.25 kg/m<sup>2</sup>/layer, depending on the substrate.

## PRIMERS



### ISO-PRIMER

**Primer of elastomeric liquid waterproofing membranes**

Polymer water-based emulsion. Ensures the proper adhesion of the elastomeric, water-based, liquid waterproofing membranes ISOFLEX, ISOFLEX-HYBRID and ISOFLEX-AEGEAN, to flat roofs with porous substrates.

Packaging: 1 kg, 5 kg, 20 kg in white.

Consumption: 0.2 - 0.3 kg/m<sup>2</sup>.



### PRIMER-PU 100

**Polyurethane primer**

One-component, polyurethane primer with solvents used to ensure proper adhesion of ISOFLEX-PU polyurethane liquid waterproofing membranes to porous substrates, like concrete, screed, wood, etc.

Packaging: 1 kg, 5 kg, 17 kg, transparent.

Consumption: 0.2 - 0.3 kg/m<sup>2</sup>.



### PRIMER-PU 140

**Two-component, solvent-free polyurethane primer**

Two-component, solvent-free polyurethane primer, ideal for substrates with high moisture content. Used to enable the adhesion of ISOFLEX-PU liquid waterproofing membranes to flat roofs. Suitable for porous and non-porous surfaces, such as concrete, screed, wood, old waterproofing layers, bituminous waterproofing membranes coated with granules, etc.

Packaging: 1 kg (A+B), 4 kg (A+B), 20 kg (A+B) in brown.

Consumption: 100 - 250 g/m<sup>2</sup>.



### EPOXYPRIMER-500

**Two-component, water-based epoxy primer**

Two-component, water-based epoxy primer, for use in combination with ISOFLEX-PU membranes to be applied to non-porous substrates, existing acrylic or hybrid liquid waterproofing membranes, bituminous waterproofing membranes coated with granules, etc. Also suitable as a primer for cement-based substrates, e.g. concrete or cement screed, to be covered with DUROFLOOR epoxy coatings.

Packaging: 1 kg (A+B), 4 kg (A+B), 10 kg (A+B), 20 kg (A+B), yellowish.

Consumption: 150 - 200 g/m<sup>2</sup>.

**S-P-09185 EPD®**  
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### **EPOXYCOAT-AC**

#### **Two-component, anti-corrosion epoxy primer**

Two-component, solvent-based, anti-corrosion epoxy primer for metal surfaces. Designed for use as a stand-alone coating or as an anti-corrosion primer of polyurethane and epoxy coatings. Applicable also to galvanized surfaces.

Packaging: 3 kg (A+B) in RAL 7040 (grey), 8 kg (A+B) in RAL 7040 (grey) and RAL 3009 (red-brown).

Other RAL colors upon order, minimum quantity 120 kg.

Consumption: 150 - 200 g/m<sup>2</sup> per layer.

## **TILE ADHESIVES**



### **ISOMAT AK-20**

#### **High-performance, flexible, polymer-modified, cement-based tile adhesive**

High-performance, flexible, polymer-modified tile adhesive featuring extended open time, no vertical slip, flexibility and moisture resistance. Suitable for fixing absorbent or non-absorbent tiles, including natural stone, decorative bricks, large-format tiles, etc., to a variety of substrates, e.g. concrete, screeds, old tile layers, heated floors, gypsum boards, etc. For indoor and outdoor applications, on walls and floors.

Packaging: 5 kg in grey & white, 15 kg in white, 25 kg in grey & white.

Consumption: 1.5 - 4.0 kg/m<sup>2</sup>, depending on trowel notch size and substrate type.



**S-P-06170 EPD®**  
[environdec.com](http://environdec.com)



### **ISOMAT AK-22**

#### **High-performance, extra-flexible, polymer-modified, cement-based tile adhesive**

High-performance, extra-flexible, polymer-modified adhesive for fixing all types of tiles even on vibrating substrates. Characterized by extended open time, no vertical slip, high flexibility and moisture resistance. Suitable for fixing tiles on concrete, screeds, gypsum board, old tile layers, heated floors, swimming pools, metal surfaces, etc. For indoor and outdoor applications, on walls and floors.

Packaging: 5 kg and 15 kg in white, 25 kg in grey & white.

Consumption: 1.5 - 4.0 kg/m<sup>2</sup>, depending on trowel notch size and substrate type.



**S-P-06170 EPD®**  
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### **ISOMAT AK-24 CRYSTAL GEL**

#### **High-performance, extra-flexible, polymer-modified tile adhesive with Crystal Gel technology. Ideal for large-format tiles**

Expertly formulated with ISOMAT's innovative Crystal Gel technology, it features quicker setting and hardening times than traditional standard-set adhesives (3-6 h), no matter the season, thus speeding up project completion. Provides no vertical slip and long open and correction times, even at high temperatures. Plus, thanks to its creamy consistency, it ensures outstanding workability and effortless application along with full tile and substrate wettability. Suitable for fixing absorbent and non-absorbent wall and floor tiles, including natural stone, decorative bricks and large-format tiles, to a variety of substrates, especially where high adhesion, extra flexibility and moisture resistance (e.g. old tiles, balconies, swimming pools, gypsum board, heated floors, etc.) are required. For interior and exterior use.

Packaging: 25 kg in white.

Consumption: 1.5 - 4.0 kg/m<sup>2</sup>, depending on trowel notch size and substrate type.



## TILE GROUTS



**S-P-06175 EPD®**  
 environdec.com



### **MULTIFILL-SMALTO 1-8**

#### **Water-repellent tile grout with porcelain effect CG2 WA**

MULTIFILL-SMALTO 1-8 is a colored, polymer-modified, cement-based tile grout delivering a smooth, glossy finish. Offers high mechanical strength, superb color stability and great water-repellency. Contains special bacteriostatic agents, blocking the growth of bacteria on the grout surface. For interior and exterior use, on walls or floors. Suitable for joints 1-8 mm wide. Classified as CG2 WA tile grout according to EN 13888 & ISO 13007-3.

Packaging: 2 kg, 4 kg in 34 colors, 20 kg in 4 colors.

Consumption: 0.2 - 2.0 kg/m<sup>2</sup>, depending on tile size and joint width.



**S-P-06175 EPD®**  
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### **MULTIFILL-DIAMOND 1-12**

#### **High-performance, designer, highly water-repellent, colored, quick-setting, polymer-modified, cement-based tile grout CG2 WA**

Thanks to its Portland cement-free formulation, it ensures perfect color uniformity and prevents the appearance of salt and lime deposits, while being more user-friendly, i.e. non-irritating. Features great water-repellency with drop-effect and high mechanical strength. Containing special bacteriostatic agents, it prevents the growth of bacteria on the grout surface. Suitable for joints 1-12 mm wide. For interior and exterior use, on walls or floors. Classified as type CG2 WA tile grout according to EN 13888 & ISO 13007-3.

Packaging: 4 kg in 18 colors.

Consumption: 0.2 - 2.0 kg/m<sup>2</sup>, depending on tile size and joint width.

## ANCILLARY PRODUCTS - REINFORCEMENTS



### **PSF 30**

Polyester fleece 30 g/m<sup>2</sup> for reinforcing elastomeric liquid waterproofing membranes and cement-based waterproofing slurries.

Packaging: Rolls of 10 cm x 50 m, 1 m x 100 m (100 m<sup>2</sup>), 1 m x 200 m (200 m<sup>2</sup>).

### **PSF 60**

Polyester fleece 60 g/m<sup>2</sup> for reinforcing ISOFLEX-PU polyurethane liquid waterproofing membranes.

Packaging: Rolls of 10 cm x 50 m, 1 m x 50 m (50 m<sup>2</sup>).

### **PSF 120**

Polyester fleece 120 g/m<sup>2</sup> for reinforcing ISOFLEX-PU polyurethane liquid waterproofing membranes.

Packaging: Rolls of 1 m x 50 m (50 m<sup>2</sup>).



### **GEOTEXTILE 120**

Non-woven polypropylene geotextile 120 g/m<sup>2</sup>.

Roll size: 2.7 m x 100 m (270 m<sup>2</sup>).



### ISOMAT DECO-FLAKES Decorative floor flakes

Decorative flakes, also known as chips, for use in interior and exterior decorative flooring systems. For production of flake flooring systems, ISOMAT DECO-FLAKES are sprinkled onto the fresh polyurethane (TOPCOAT-PU 720, ISOFLEX-PU 600), polyaspartic (ISOFLEX-PAS 660, TOPCOAT-PAS 760), or epoxy (DUROFLOOR, DUROFLOOR-R) floor coating surface and bond to the wet film to become a permanent part of the coating. Flake floors show excellent resistance to abrasion and high UV resistance.

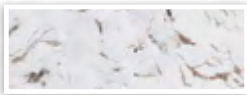
Colors and sizes: 4 selected colors (1/50 White, S302 Light Grey Blend, S305 Dark Grey Blend, 2/52 Black) in 3 - 12 mm and 5 - 15 mm sizes.

4 selected colors (8000 Sand beige, 6080 Light blue, 6200 Dark blue, 1500 White) in 250 µm - 850 µm sizes.

Other colors and sizes upon request.

Consumption: 5 - 250 g/m<sup>2</sup>, depending on the desired broadcast density.

1/50 WHITE



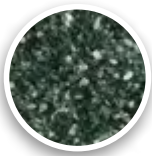
S302 LIGHT GREY BLEND



S305 DARK GREY BLEND



2/52 BLACK



### ISOMAT NATURAL COLORED STONES Natural colored stones for Stone Carpet and Terrazzo floors

For use in combination with:

a) the transparent polyurethane resin binder ISOFLEX-PU 650 for outdoor stone carpet applications,

b) the transparent solvent-free polyurethane resin binder VARNISH-PU 1K for indoor stone carpet applications, and

c) the cementitious mortar-binder DUROCRET-TERRAZZO for decorative floor screeds with a modern terrazzo look, both indoors and outdoors.

Size: (01, 02, 03, 04, 05, 06, 08) 2 - 4 mm & (07, 09, 10) 2 - 5 mm.

Colors: 10 selected colors.

01. THASSOS



02. BIANCO CARRARA



03. BARDIGLIO



04. GRIGIO



05. BOTTICINO



06. GIALLO SIENA



07. ARABESCATO



08. ROSA



09. MARRONE



10. VERDE



## REFERENCE PROJECTS



Four Seasons Astir Palace Hotel, Athens, Greece



Ship Design Group Office Building, Galati, Romania



Lukoil Oil Company, Moscow, Russia



Panathinaikos FC Stadium, Athens, Greece



Domodedovo International Airport, Moscow, Russia



Sariyer Municipality, Istanbul, Turkey



Central Independence Square, Sofia, Bulgaria



Nuclear Plant, Krško, Slovenia

## REFERENCE PROJECTS



Asyaport Liman A.Ş. Port, Barbaros Süleymanpaşa, Turkey



Belgrade Waterfront Complex, Belgrade, Serbia



Admiral Hotel, Batumi, Georgia



Metropol Palace Hotel, Belgrade, Serbia



Rostelecom Telecommunications Operator, Moscow, Russia





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