KÖSTER
Waterproofing Systems

KÖSTER System overview

Edition 2023

MADE IN GERMANY

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Fields of application for KÖSTER waterproofing

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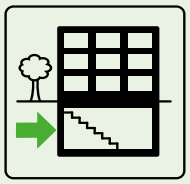
External basement waterproofing

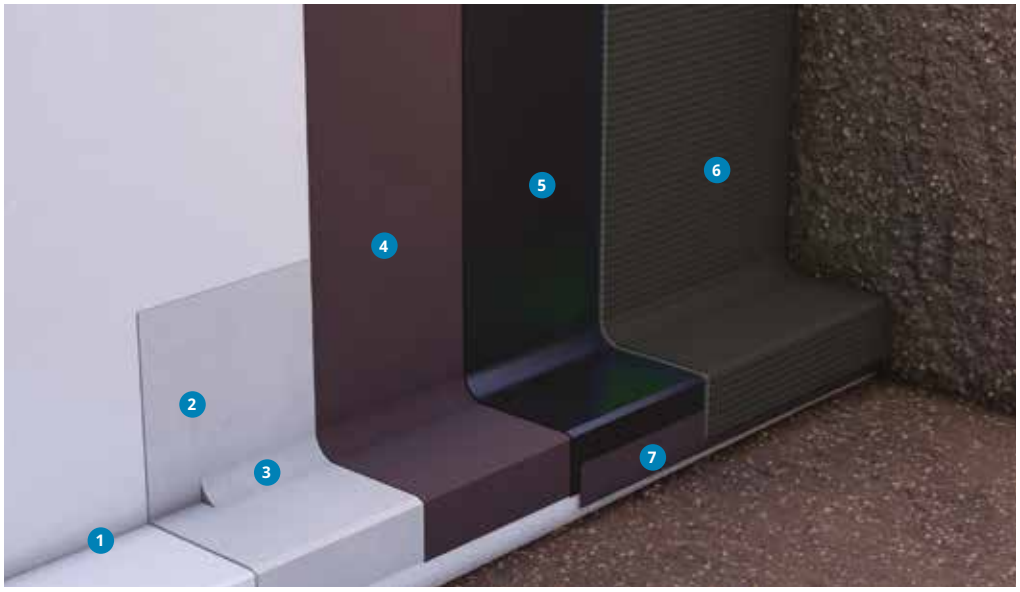


Wet basements cannot be fully used and might endanger the building substance. We offer different methods for making basements permanently waterproof: From the outside with polymer-modified thick film sealants, mineral sealing slurries or a cold self-adhesive waterproofing membrane – whereby the entire external wall area is treated and thus protected from water penetration. In repair cases, the external waterproofing can be installed even from the inside of the basement. This method is called "curtain injection".

External basement waterproofing with mineral based waterproofing systems

1. Primer
   KÖSTER Polysil TG 500
2. Waterproofing pipe penetrations
   KÖSTER KB-Flex 200
3. Preparing wall/floor junctions
   KÖSTER NB 1 Grey
4. Installing fillets
   KÖSTER Repair Mortar Plus
5. Waterproofing layer
   KÖSTER NB 4000
6. Reinforcement
   KÖSTER Glass Fiber Mesh
7. Protection of the waterproofing layer
   KÖSTER SD Protection and Drainage Sheet 3-400

External basement waterproofing with cold self-adhesive waterproofing membranes



1. Joint sealing
   KÖSTER Quellband
2. Wall/floor junction
   KÖSTER NB 1 Grey
3. Installing fillets
   KÖSTER Repair Mortar Plus
4. Primer
   KÖSTER KBE Liquid Film
5. Waterproofing layer
   KÖSTER KSK SY 15
6. Protection of the waterproofing layer
   KÖSTER SD Protection and Drainage Sheet 3-400
7. Waterproofing membrane ending
   KÖSTER KBE Liquid Film

External basement waterproofing with thermoplastic waterproofing membranes

1. Waterproofing membrane
   KÖSTER ECB 1.5 U S
   KÖSTER ECB 2.0 U S
2. Protection of the waterproofing layer
   KÖSTER SD
   Protection and Drainage
   Sheet 3-400

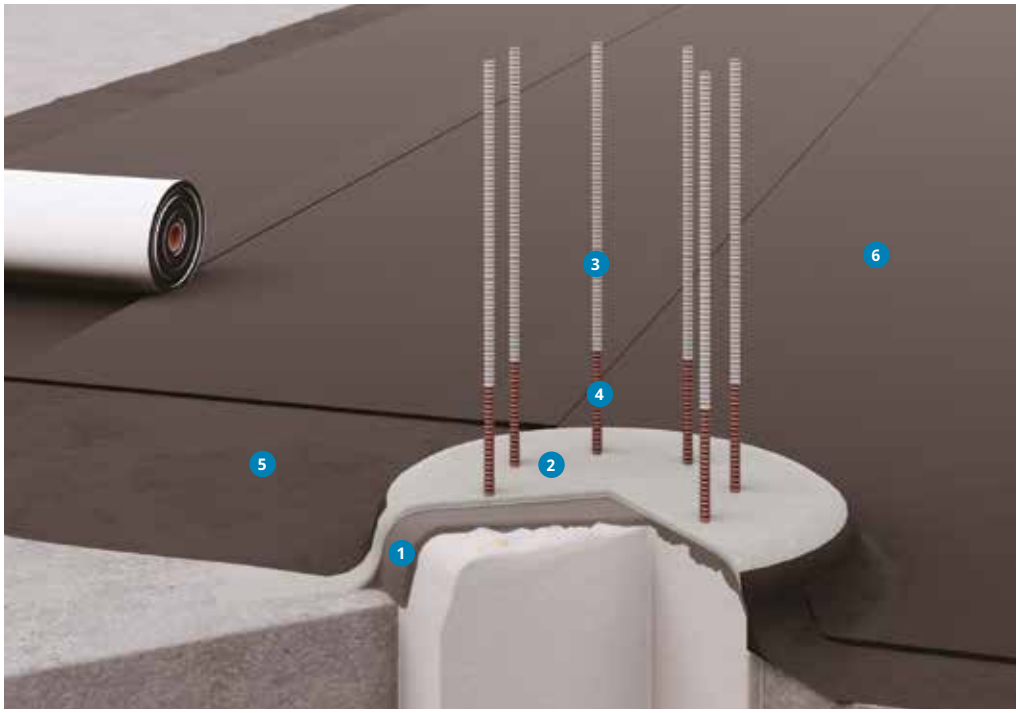
Waterproofing under the foundation plate

1. Primer
   KÖSTER Polysil TG 500
2. Waterproofing layer
   KÖSTER Deuxan 2C
   KOSTER NB 4000
   KOSTER KSK SY 15
   KOSTER KSK ALU 15
   KOSTER ECB 1.5 U S
   KOSTER ECB 2.0 U S
3. Embedded mesh
   KÖSTER Glass Fiber Mesh
4. Gliding Layer
   Customary PE-foil
5. Fillet
   KÖSTER WP Mortar
6. Waterproofing layer
   KÖSTER NB 1 Grey
7. Protection of the waterproofing layer
   KÖSTER SD
   Protection and Drainage
   Sheet 3-400

Waterproofing of pile heads with bitumen based liquid systems

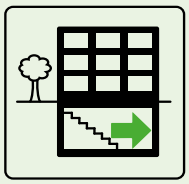
1. Reprofiling
   KÖSTER Repair Mortar R4
2. Waterproofing of pile heads
   KÖSTER NB 1 Grey
3. Corrosion protection
   KÖSTER Z 1
4. Corrosion protection
   KÖSTER Z 2
5. Waterproofing layer
   KÖSTER Deuxan 2C
6. Embedded Mesh
   KÖSTER Glass Fiber Mesh
7. Waterproofing layer
   KÖSTER Deuxan 2C
8. Gliding Layer

Waterproofing of pile heads with cold applied self-adhesive membranes



1. Reprofiling
   KÖSTER Repair Mortar R4
2. Reprofiling
   KÖSTER NB 1 Grey
3. Corrosion protection
   KÖSTER Z 1
4. Corrosion protection
   KÖSTER Z 2
5. Primer
   KÖSTER KBE Liquid Film
6. Waterproofing Layer
   KÖSTER KSK SY 15

Internal basement waterproofing



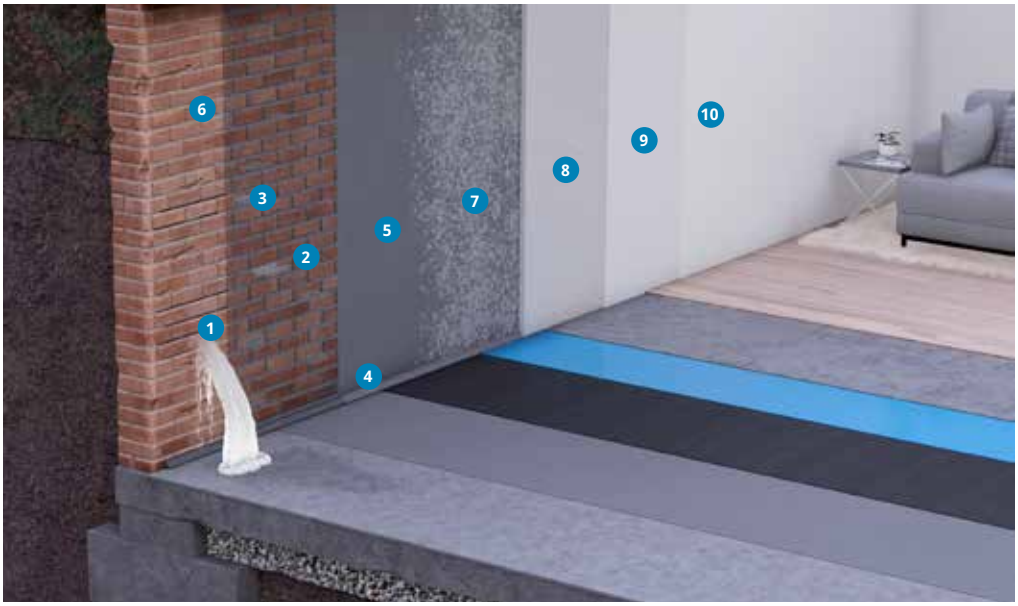
In a repair situation, the basement can be waterproofed from the inside without excavating the soil around the building. This means that the basement is permanently waterproofed without the necessity of doing any sort of earthwork. This type of waterproofing is possible with the KÖSTER systems even when the wall has active leakages.

Internal basement waterproofing on the foundation plate with cold-adhesive waterproofing membranes

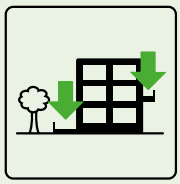
1. Horizontal barriers for walls
   KÖSTER Fix-Tape 15 SY
2. Primer
   KÖSTER KSK Primer BL
3. Waterproofing Layer
   KÖSTER KSK SY 15
4. Sealing of the Waterproofing Layer
   KÖSTER Butyl Fix-Tape Fleece
5. Protection layer (PE foil)

Internal basement waterproofing in case of flowing water

1. Stopping active leakages
   KÖSTER KD 2 Blitz Powder
2. Primer: Water
3. Levelling the surface
   KÖSTER Repair Mortar Plus
4. Installing fillets
   KÖSTER Repair Mortar Plus
5. Waterproofing layer
   KÖSTER KD System
6. Waterproofing pipe penetrations
   KÖSTER KB-Fix 5
   KÖSTER KB-Flex 200
7. Plaster key
   KÖSTER Restoration Plaster Key
8. Plaster
   KÖSTER Restoration Plaster White
9. Fine Finish
   KÖSTER Fine Plaster
10. Paint
    KÖSTER Silicone Paint White

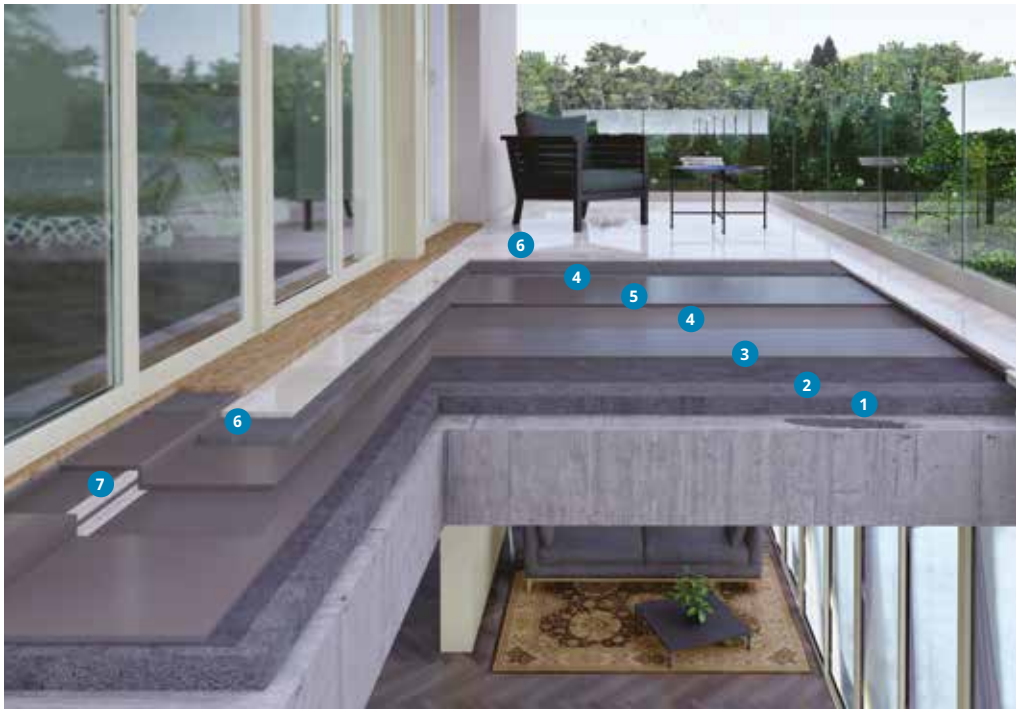


Waterproofing balconies and terraces



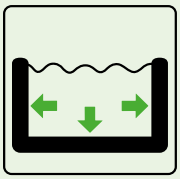
This field poses the highest demands on waterproofing. It must be able to resist the weather, be waterproof and provide a certain structural stability. Also, outside the movements of the construction members are usually comparably large, so that it is necessary to use waterproofing systems with high crack bridging capabilities.

Waterproofing of balconies and terraces with mineral based waterproofing systems



1. Concrete repair
   - KÖSTER Betomor Multi A
   - KÖSTER Repair Mortar R4
2. Primer
   - KÖSTER Polysil TG 500
3. Levelling underlayment
   - KÖSTER SL Premium
   - KÖSTER SL Protect
   - KÖSTER Repair Mortar
4. Waterproofing Layers
   - KÖSTER NB 4000
   - KÖSTER NB Elastic Grey
   - KÖSTER 21
5. Reinforcement
   - KÖSTER Flex Fabric
   - KÖSTER Glass Fiber Mesh
6. Tile Adhesive
   - KÖSTER BD Flexible Tile Adhesive
7. Waterproofing wall / floor junctions
   - KÖSTER Flex Fabric

Waterproofing potable water tanks



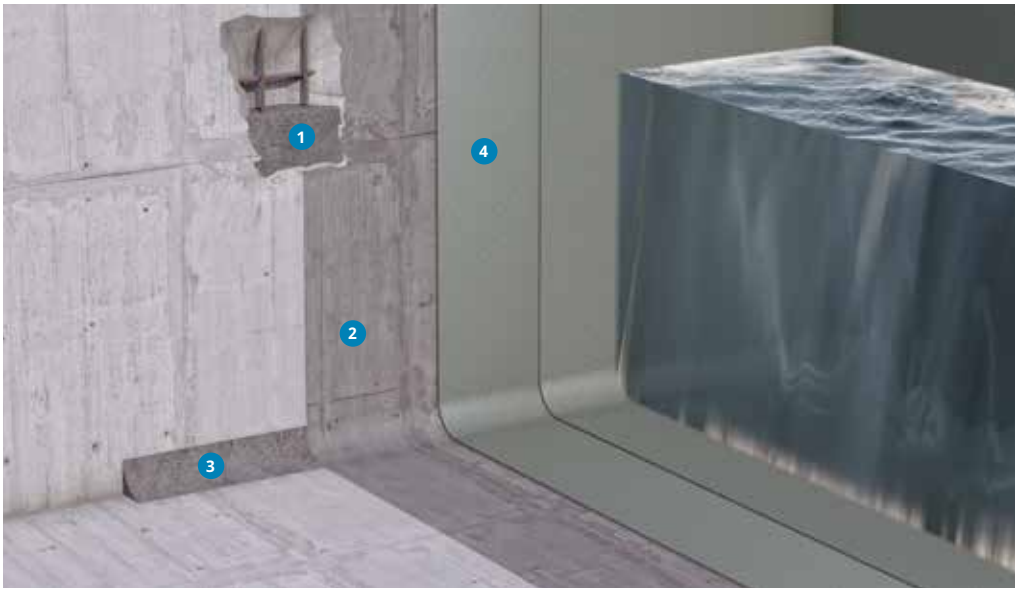
Waterproofing for drinking water storage structures and tanks must not only remain watertight for many years, but must also meet all sanitary requirements. The system used should be free of development of micro-organisms on the surface and at the same time, allow an easy and periodical cleaning method, with non-harmful substances.

Waterproofing water tanks with TPO membranes

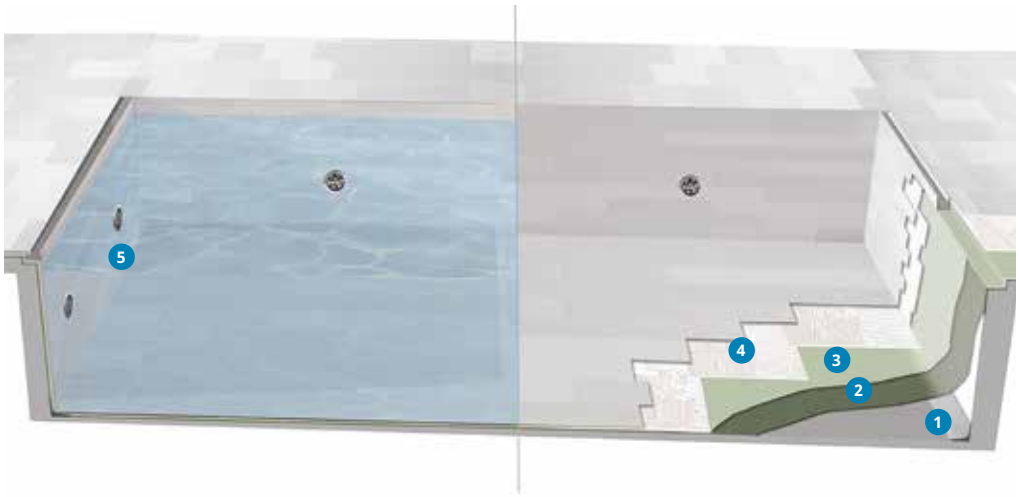
1 Substructure
2 KÖSTER TPO Membrane
KÖSTER TPO Aqua 1.5

Waterproofing water tanks with 1 component crystalizing mineral coat

1 Concrete Repair
KÖSTER Repair Mortar R4
2 Primer
KÖSTER Polysil TG 500
3 Installing fillets
KÖSTER Repair Mortar Plus
4 Waterproofing layer
KÖSTER NB 1 Grey



Waterproofing swimming pools

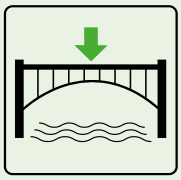


1. Fillet
   KÖSTER WP Mortar
2. Negative side waterproofing
   KÖSTER NB 1 Grey
3. Positive side waterproofing
   KÖSTER NB Elastic Grey
   KÖSTER NB 4000
4. Tile adhesive
   KÖSTER BD
   Flexible Tile Adhesive
5. Penetrations
   KÖSTER KB-Flex 200

Waterproofing of pipes, manholes and sewage areas

1. Stopping active leakages
   KÖSTER KD 2 Blitz Powder
   KÖSTER Waterstop
2. Waterproofing sewers
   KÖSTER NB 1 Grey
   KÖSTER Repair Mortar NC
   KÖSTER Repair Mortar R4
3. Waterproofing masonry
   KÖSTER NB 1 Grey
4. Acid protection
   KÖSTER PSM
   KÖSTER PSM 2S+
5. Waterproofing shafts
   KÖSTER Sewer and Shaft Mortar
6. Waterproofing pipe couplings
   KÖSTER Injection Gel G4
7. Crack injection
   KÖSTER Injection Gel G4
   KÖSTER 2 IN 1
8. Heavy duty surface protection
   KÖSTER Sewer and Shaft Mortar

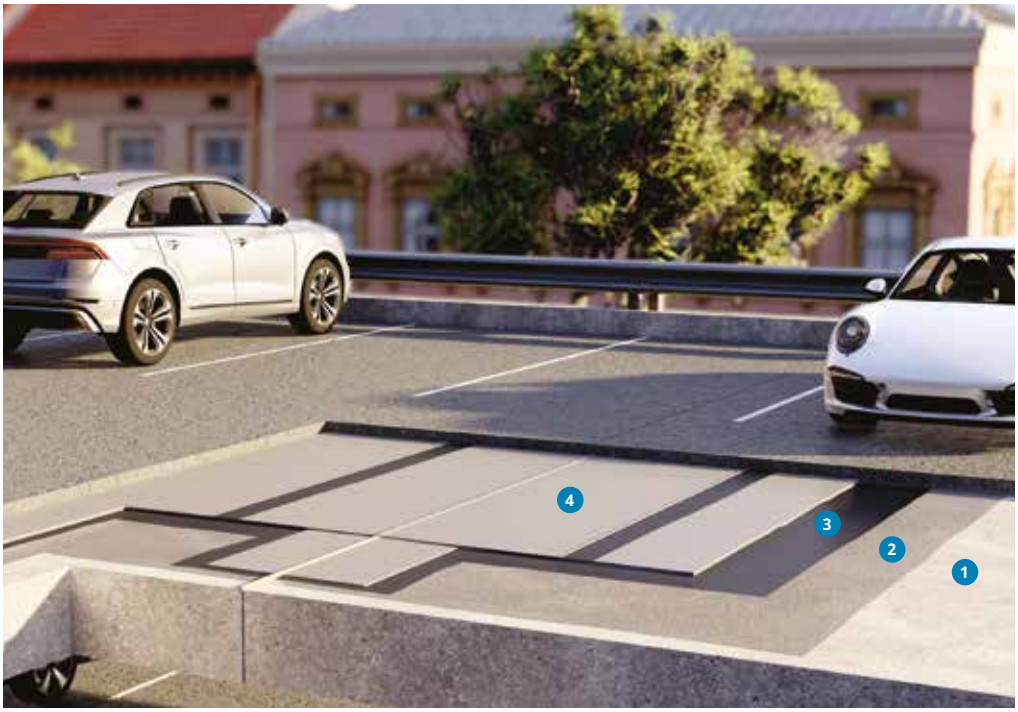
Car Parking and Bridge Deck Waterproofing System



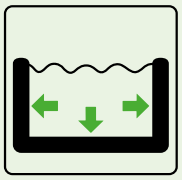
Car Parking as well as bridge deck Waterproofing demand high standards on the materials, not only during their installation and resilience to hot bitumen on asphalt roads, but also on the durability when exposed to harsh environmental conditions and dynamic loads. A suitable system must therefore, be able to withstand high temperatures, provide adequate bond and create a flexible and reliable waterproofing barrier.

Car Parking Waterproofing System

1. Substrate
2. Primer
   KÖSTER CT 225
   Bridge Deck Coating
3. Hot Bitumen
4. KÖSTER ECB Membrane
   KÖSTER ECB 2F



Dams and Canals

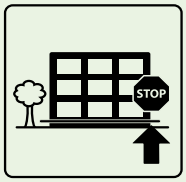


A hydraulic structure is a man-made structure submerged or partially submerged which disrupts the natural flow of water in order to use it for other purposes, such as energy production, storage and even protection (against flooding). These structures are commonly known as dams.
Other types of man-made structures that deal with big quantities of water are canals and artificial lakes, that are mostly used for storage and irrigation purposes for agriculture and drinking water transport, but also for hydropower production.

Dams and Canals

1 Substrate
2 Waterproofing layer
TPO Aqua 2.5 Geo

Horizontal barriers for restoration walls



Rising moisture in masonry over a longer period of time can lead to considerable damages. An indication of these damages is salt efflorescence, flaking plaster, moist wallpaper and the formation of mold which can be harmful. KÖSTER horizontal barriers stop rising moisture in new construction and existing buildings to protect the valuable building substance.

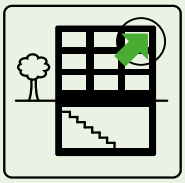
Horizontal barriers with pressureless injection system KÖSTER Crisin 76

1. Accessories
   KÖSTER Capillary Rods
2. Accessories
   KÖSTER Suction Angle
3. Cross section waterproofing
   KÖSTER Crisin 76
4. Primer
   KÖSTER Polysil TG 500
5. Levelling
   KÖSTER Repair Mortar Plus
6. Plaster key
   KÖSTER Restoration Plaster Key
7. Plaster
   KÖSTER Restoration Plaster Grey
   KÖSTER Restoration Plaster Grey/Light
8. Fine plaster
   KÖSTER Fine Plaster
9. Paint
   KÖSTER Silicone Paint White

Horizontal barriers with pressureless injection system KÖSTER Crisin Cream

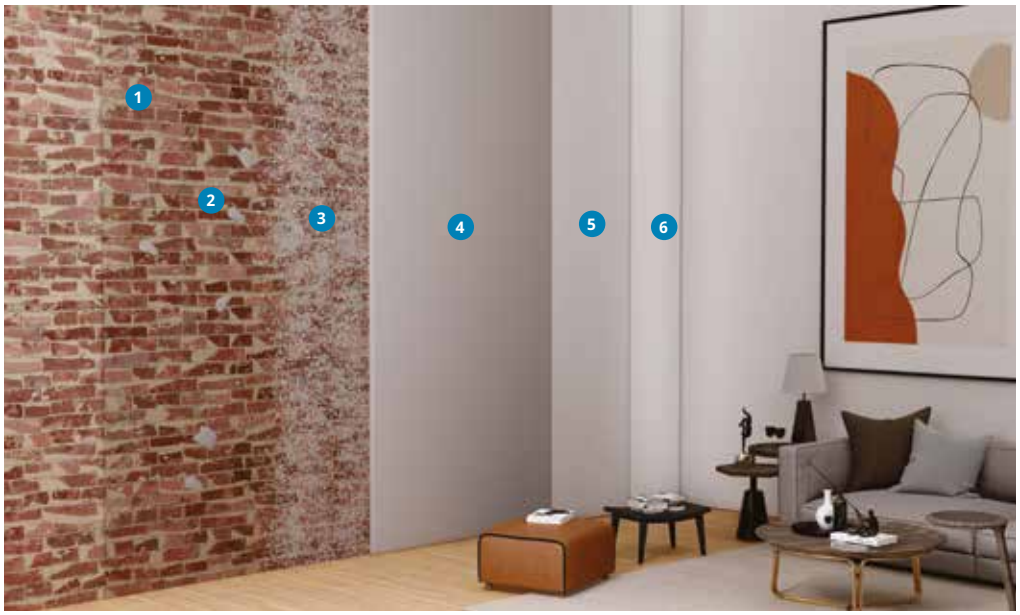
1. Boreholes
2. Cross section waterproofing
   KÖSTER Crisin Cream
3. Closing holes
   KÖSTER KB-Fix 5
4. Primer
   KÖSTER Polysil TG 500
5. Levelling
   KÖSTER Repair Mortar
6. Plaster key
   KÖSTER Restoration Plaster Key
7. Plaster
   KÖSTER Restoration Plaster White
8. Fine plaster
   KÖSTER Fine Plaster
9. Paint
   KÖSTER Silicone Paint White

Restoration plasters



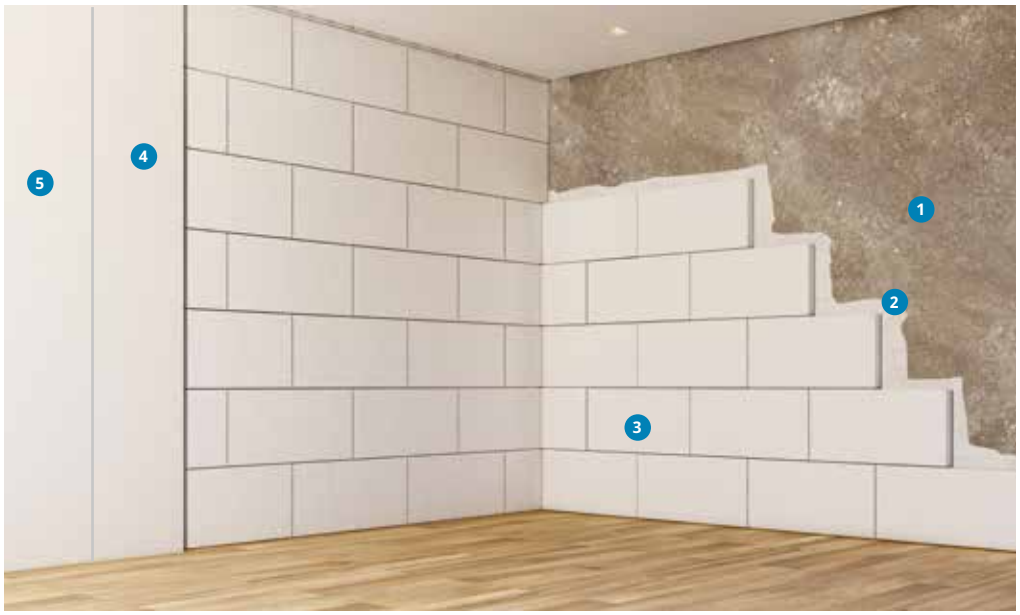
Mold in living areas caused by moisture penetration and thermal bridges results in extensive health damage because the mold releases its spores into the air which is then inhaled by the inhabitants. A special Anti Mold System – which functions on a purely physical basis and which is free of fungicidal toxins provides a permanent protection because mold can not grow on this coating.

Restoration of masonry with restoration plasters



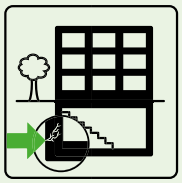
1. Primer
   KÖSTER Polysil TG 500
2. Levelling
   KÖSTER Repair Mortar
3. Plaster key
   KÖSTER Restoration Plaster Key
4. Plaster
   KÖSTER Restoration Plaster White
5. Fine plaster
   KÖSTER Fine Plaster
6. Paint
   KÖSTER Silicone Paint White

Hydrosilicate system for mold remediation and prevention on interior surfaces



1. Surface preparation
   KÖSTER Polysil TG 500
2. Adhesive
   KÖSTER Hydrosilicate Adhesive SK
3. Boards
   KÖSTER Hydrosilicate Board
   KÖSTER Hydrosilicate Tapered Board
4. Fine plaster
   KÖSTER Hydrosilicate Adhesive SK
5. Paint
   KÖSTER Silicone Paint White

Crack injection and hose injection



Cracks in the building substance are structurally weak points. Additionally, penetrating water may cause damage and may reduce the usage and lifetime of the building. An elastic sealing or structural-bonding of the crack is required. In order to achieve this, the crack is filled over its entire course with a polyurethane or epoxy injection resin via pressure injection.

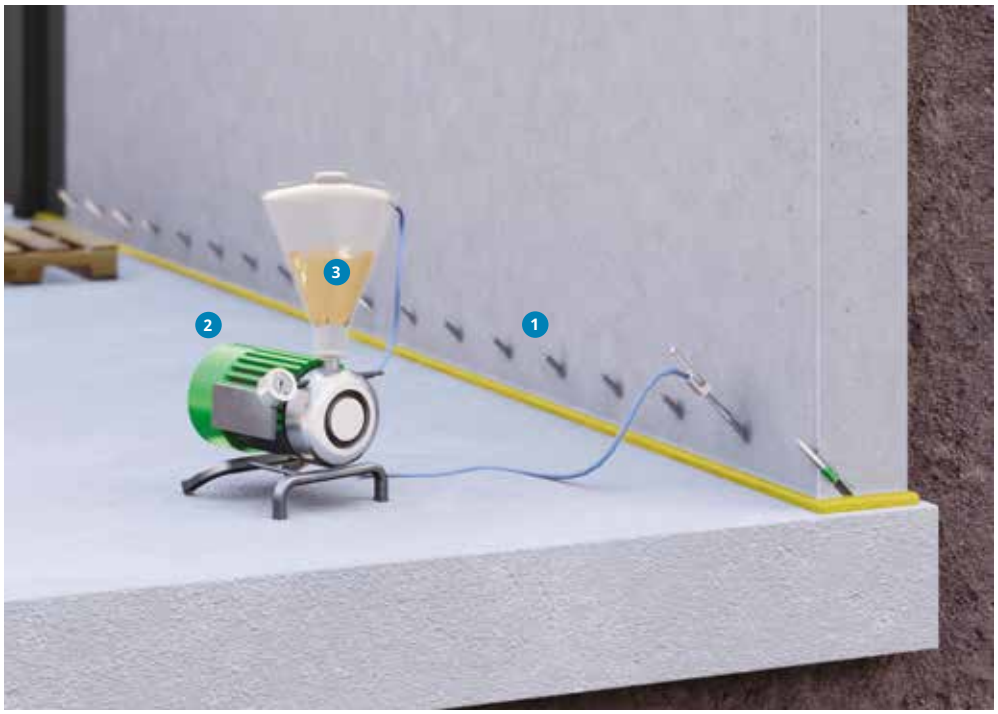
Elastic and structural crack injection by pressure injection on dry or wet cracks

1 Installing the packers
KÖSTER Packer
13 mm x 130 mm CH
2 Injection Resin
KÖSTER 2 IN 1
Alternative:
KÖSTER KB-Pox IN
3 Pump
KÖSTER
1C Injection Pump

Pressure injection of water bearing cracks

1 Installing the packers
KÖSTER Packer
13 mm x 130 mm CH
2 Injection Resin
KÖSTER 2 IN 1
KÖSTER IN 8
3 Pump
KÖSTER 1C Injection Pump

Waterproofing of construction joints in the wall/floor junction

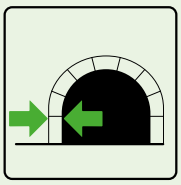


1 Installing the packers
KÖSTER Packer
13 mm x 130 mm CH
2 Pump
KÖSTER 1C Injection Pump
3 Injection Resin
KÖSTER 2 IN 1
Alternative:
KÖSTER IN 2

Waterproofing of construction joints via an injection hose

1 Injection hose
2 Injection Resin
KÖSTER IN 5
3 Pump
KÖSTER 1C Injection Pump

Acrylic gel injections



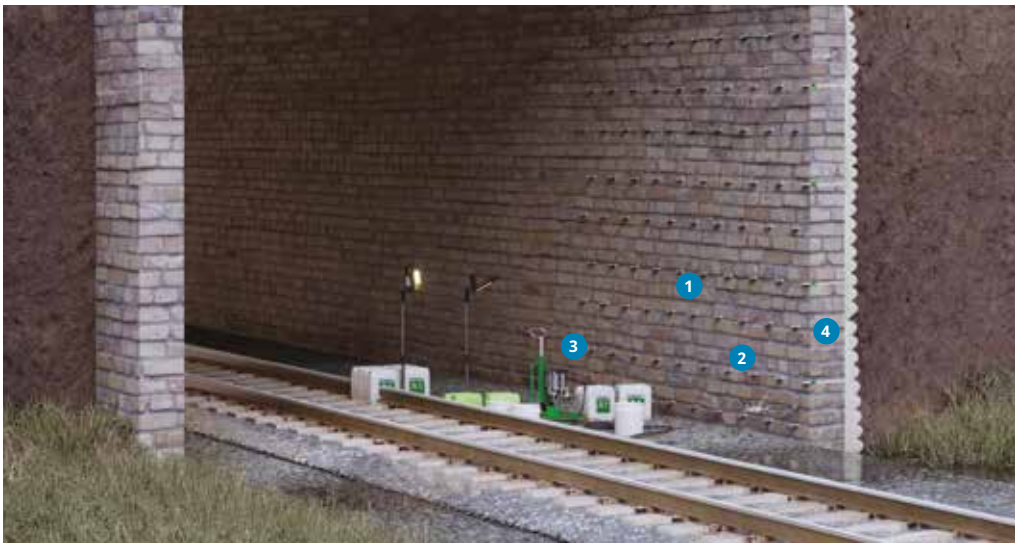
Acrylic gels are predominantly distinguished by their extremely low initial viscosity (similar to water), allowing the deepest penetration in the pore structure among all other injection materials. They are typically used for building waterproofing through curtain, masonry, and void injection. Tunnel waterproofing requires specialized waterproofing materials which can vary depending on the type of tunnel elements and construction methods involved. Special parameters such as abnormally high water pressure and infrastructure conditions must be taken into consideration during restoration planning. Acrylic gels used for building waterproofing are characterized, even in the fully reacted state, by having considerable amounts of water (hydrophilic capabilities), which is physically bound in the polymer network. The binding is sufficient that the water cannot be driven out even by high pressure.

Tubbing Tunnel Construction

1. Injection needle
2. Curtain injection
   KÖSTER Injection Gel G4
   KÖSTER Injection Gel S4
3. Gel pump
   KÖSTER Acrylic Gel Pump

Masonry Tunnel Construction

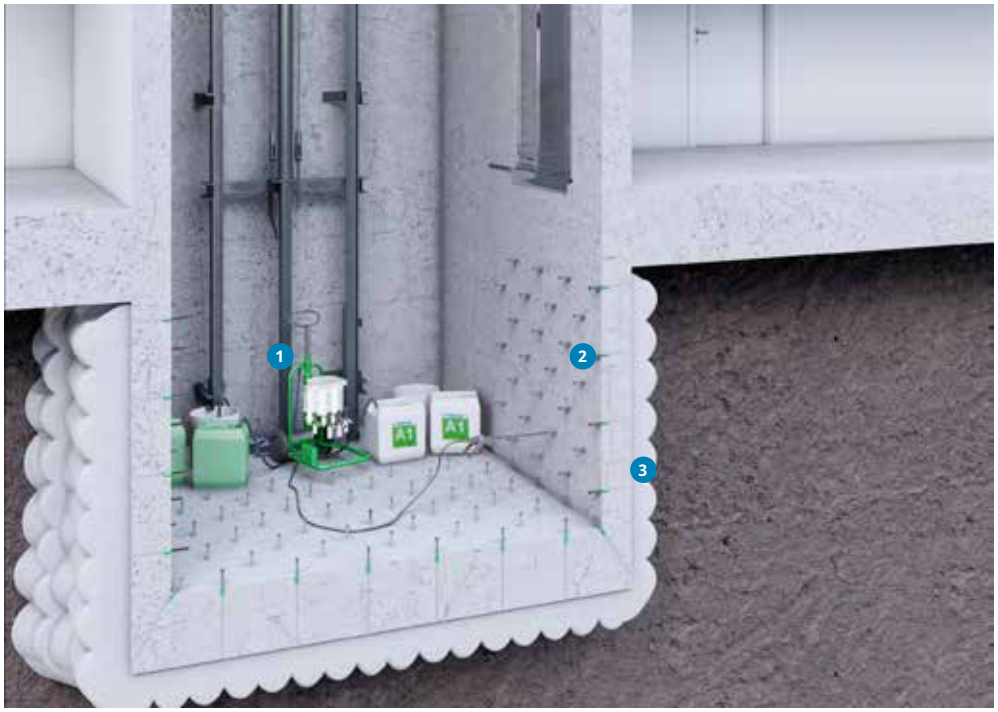
1. Area injection
   KÖSTER Injection Barrier
   KÖSTER Injection Gel G4
   KÖSTER Mortar Boost
2. Injection packer
   KÖSTER Superpacker
   10 mm x 85 mm CH
3. Injection pump
   KÖSTER Acrylic Gel Pump
4. Void filling
   KÖSTER Injection Gel G4
   KÖSTER Injection Gel S4



External basement waterproofing with curtain injection

1 Pump
KÖSTER Acrylic Gel Pump
2 Injection packers
KÖSTER Lamella Impact Packer
KÖSTER Packer 13 mm x 130 mm CH
3 Waterproofing layer
KÖSTER Injection Gel G4
KÖSTER Injection Gel S4

Vertical and horizontal curtain injection



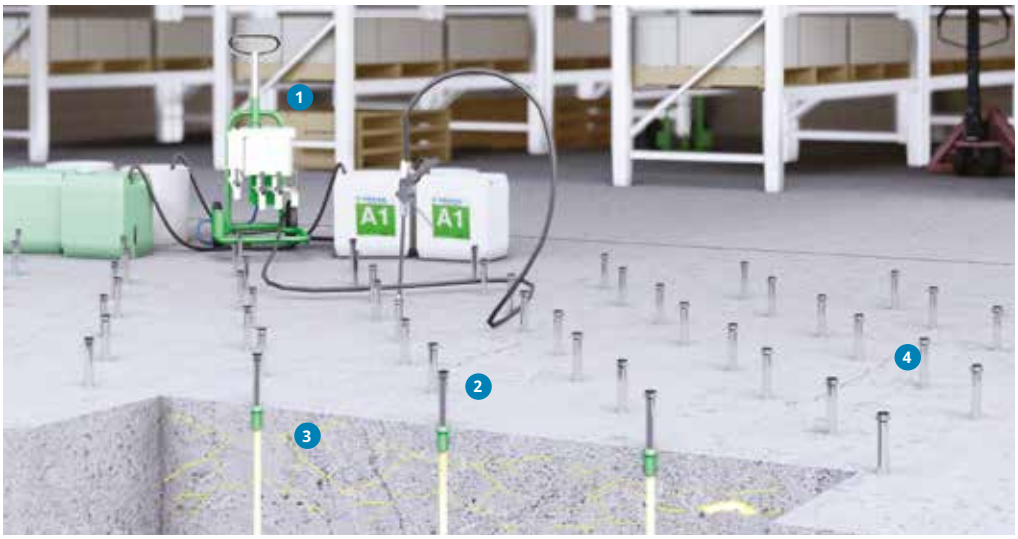
1 Pump
KÖSTER Acrylic Gel Pump
2 Injection packers
KÖSTER Superpacker 13 mm x 130 mm
3 Waterproofing layer
KÖSTER Injection Gel G4
KÖSTER Injection Gel S4

Masonry injection

1. Pump
   KÖSTER Acrylic Gel Pump
2. Injection Barrier
   KÖSTER Injection Barrier
3. Injection packers
   KÖSTER Superpacker
   13 mm x 130 mm
4. Waterproofing layer
   KÖSTER Injection Gel G4
5. Filling the boreholes
   KÖSTER KB-Fix 5

Concrete injection

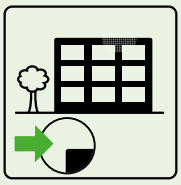
1. Pump
   KÖSTER Acrylic Gel Pump
2. Injection packers
   KÖSTER Superpacker
   13 mm x 130 mm CH
3. Waterproofing layer
   KÖSTER Injection Gel G4
4. Filling the boreholes
   KÖSTER KB-Fix 5



Soil stabilization

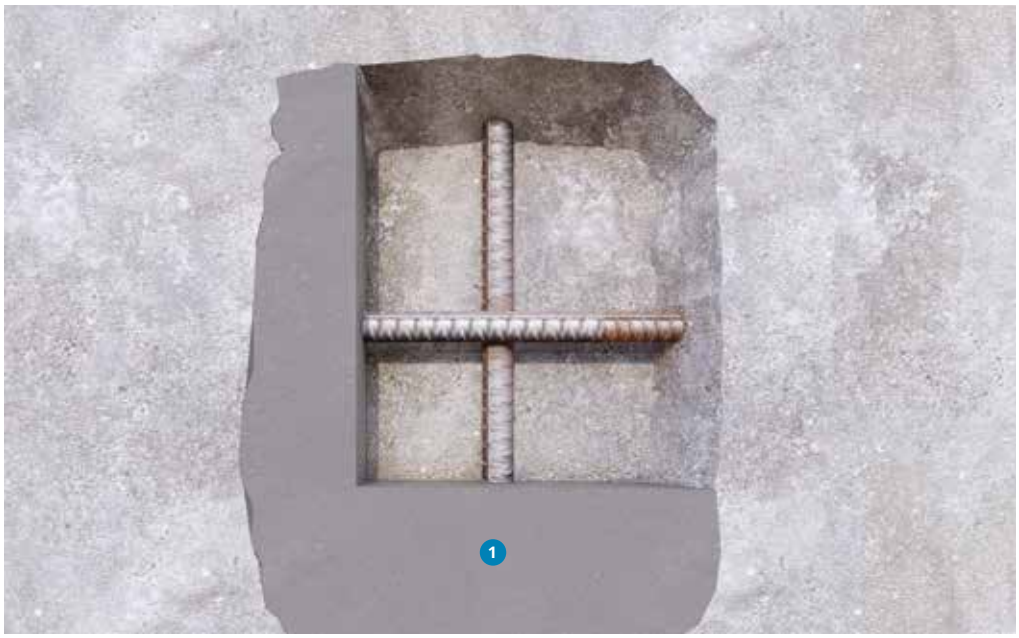
1. Pump
   KÖSTER Acrylic Gel Pump
2. Injection lances
3. Injection and stabilization layer
   KÖSTER Injection Gel G4

Concrete Repair Systems



Damages to construction members made of concrete require treatment in order to restore the original characteristics. Exposed steel reinforcement must also be protected from corrosion.
The original structure is restored using mineral products, that recover not only the functionality of the structures, but also protect them from further corrosion and the carbonation process.

Small Areas



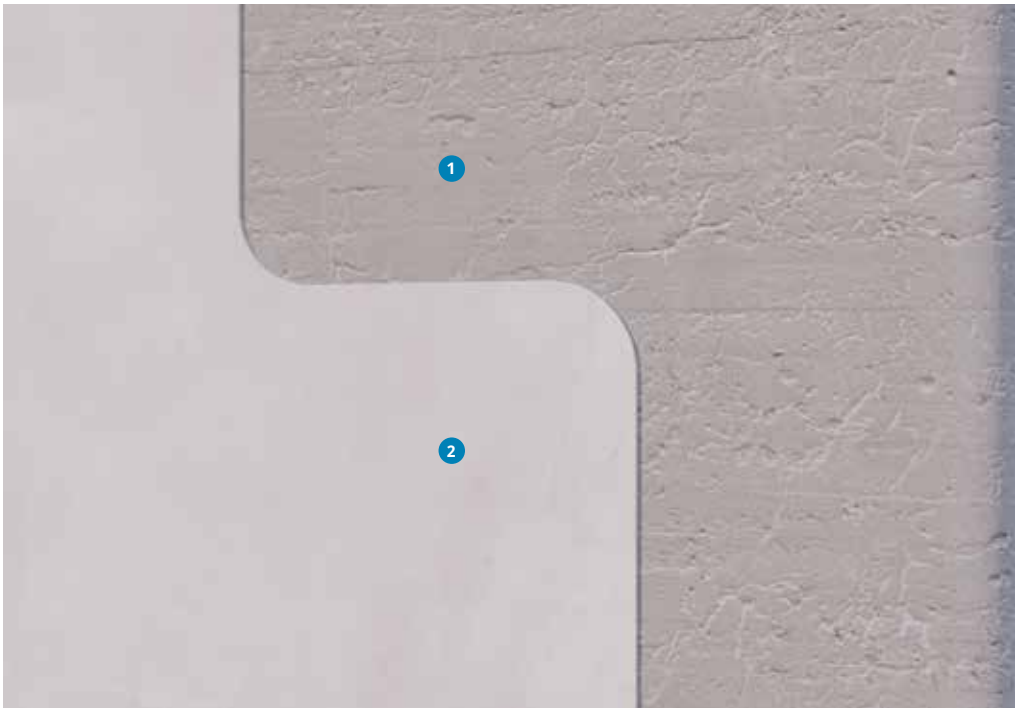
1 Concrete Repair
KÖSTER Betomor Multi A

Large Areas

1 Corrosion protection (reinforcement)
KÖSTER Z 1
KÖSTER Z 2
2 Concrete repair
KÖSTER Repair Mortar R4
3 Surface levelling and smoothing
KÖSTER C-Coat

Rough Surface renovation

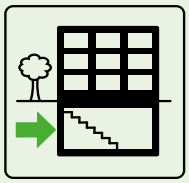
1 Rough concrete
2 Surface levelling and smoothing
KÖSTER C-Coat



High early strength mortar systems (1h)

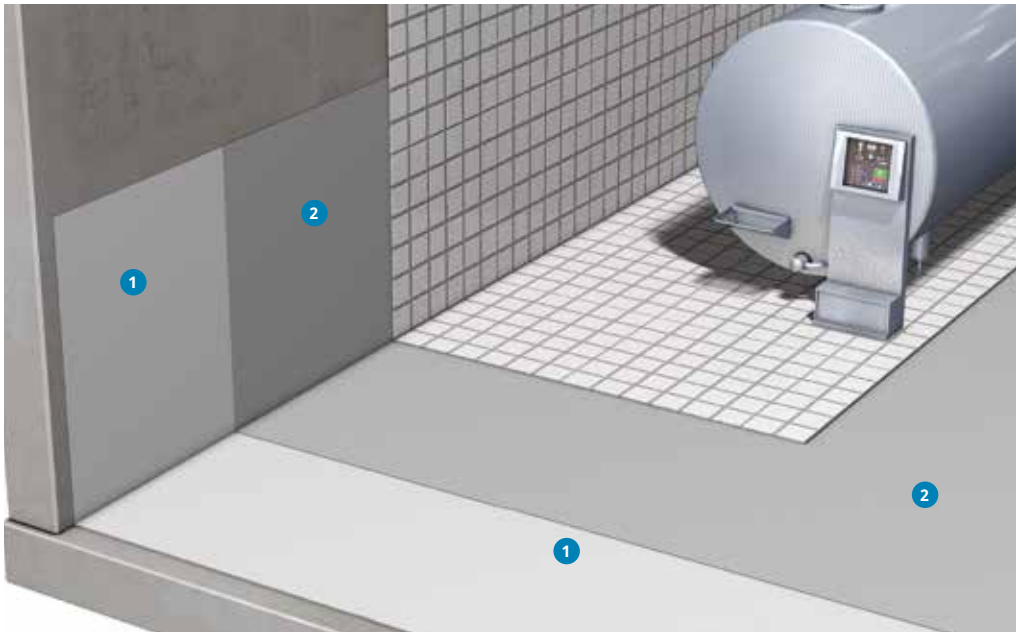
1 Concrete repair
KÖSTER Turbo Mortar F
KÖSTER Turbo Mortar M

Concrete Protection Systems



Concrete structures are subjected to a wide variety of damaging influences, both mechanical and chemical. Chemicals can directly attack the concrete matrix or dissolve in water and so enter the concrete and induce damage. To keep the structure safe, KÖSTER manufactures a wide variety of materials for the waterproofing and chemical protection of concrete. From hydrophobizing agents, to coatings for concrete and steel, and paints, KÖSTER can provide the proper solution for every problem.

Heavy duty corrosion protection for concrete



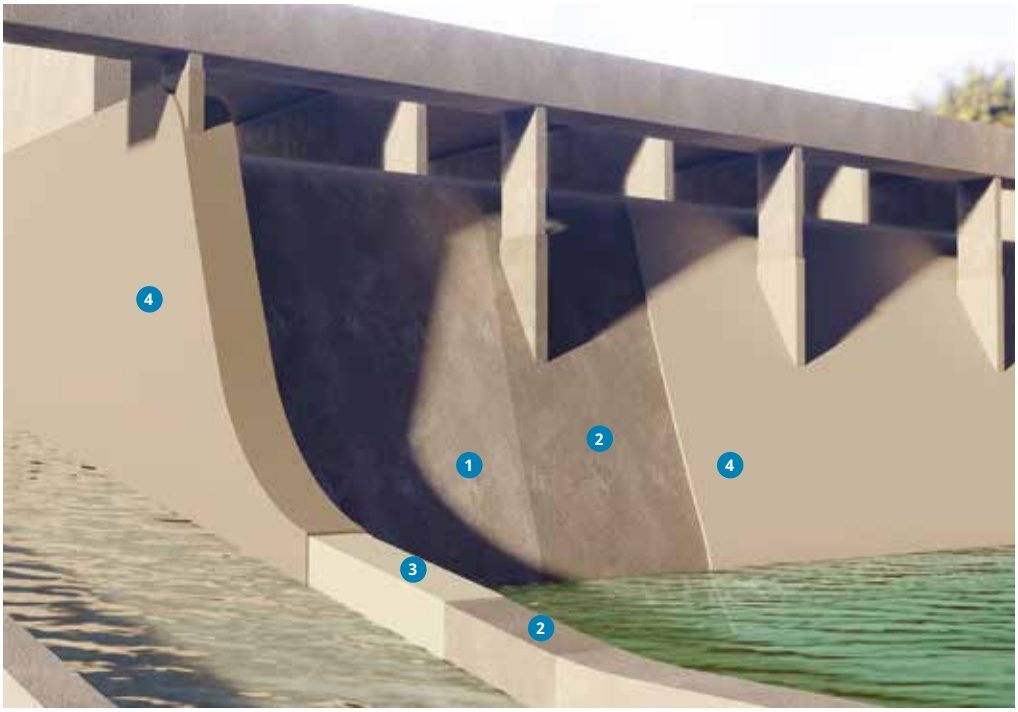
1. Waterproofing layer
   KÖSTER NB 1 Grey
2. Heavy duty surface protection
   KÖSTER PSM
   KÖSTER PSM 2S+

Heavy duty acid & corrosion protection for chimneys

1. Reprofiling
   KÖSTER Repair Mortar NC
   KÖSTER Repair Mortar R4
2. Surface protection
   KÖSTER PSM
3. Surface protection
   KÖSTER PSM 2S+
4. Surface levelling and smoothing
   KÖSTER C-Coat
5. Paint
   KÖSTER Silicone Paint White

Concrete protection of dams and spillways

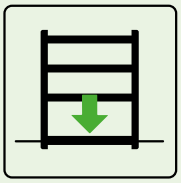
1. Substrate
2. Primer
   KÖSTER Polysil TG 500
3. Waterproofing layer
   KÖSTER NB 1 Grey
4. Surface protection
   KÖSTER Repair Mortar R4



Waterproofing Sewers and Shafts

1. Primer
   KÖSTER Polysil TG 500
2. Levelling the substrate
   KÖSTER Sewer
   and Shaft Mortar
3. Surface protection against abrasion and chemicals
   KÖSTER Sewer
   and Shaft Mortar

Self leveling underlayments



Whether installing flooring systems and coatings in new or existing buildings, substrates generally must first be levelled. The goal is to provide a level and highly resilient surface suitable for a broad variety of flooring systems.

Fast-setting self-leveling underlayment on mineral and non-absorbent substrates

1 Primer
KÖSTER VAP I 06
2 Floor coating
KÖSTER SL Premium

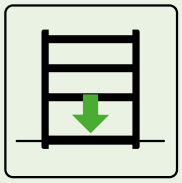
Self-leveling underlayment on wooden substrates

1 Primer
KÖSTER VAP I 06
2 Floor coating
KÖSTER SL Flex

Self-leveling protective floor with high chemical resistance

1 Primer
KÖSTER SL Primer
2 Floor coating
KÖSTER SL Protect

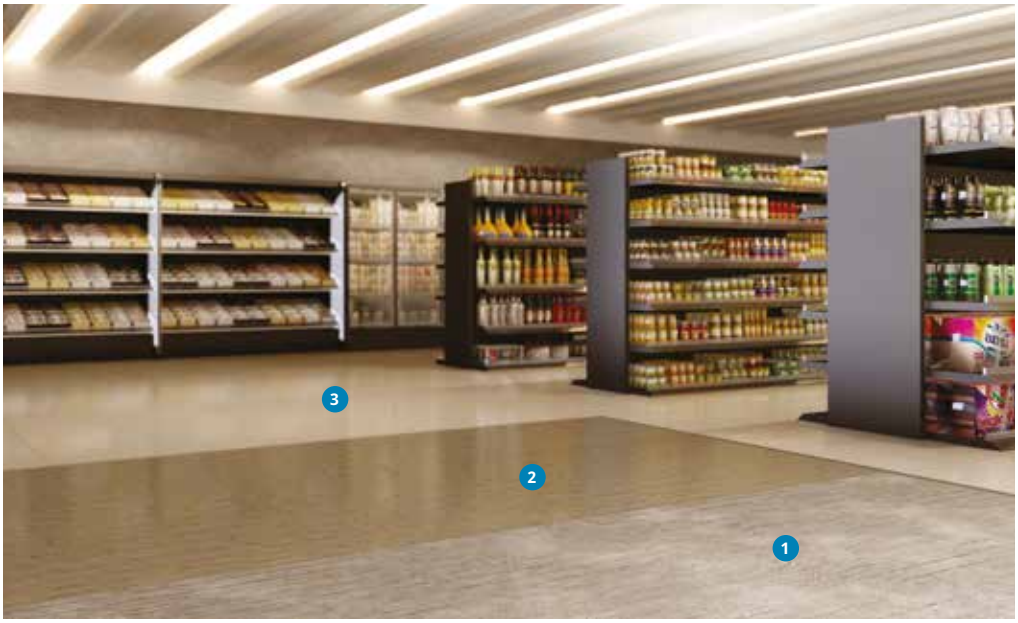
Floor coatings



Floor coatings, for example on garages, industrial floors or canteen kitchens usually demand high standards on their resistance, as well as their visual appearance. These floors can be permanently protected against mechanical damage and the penetration of liquids with colored protective coatings.

Moisture Mitigation System

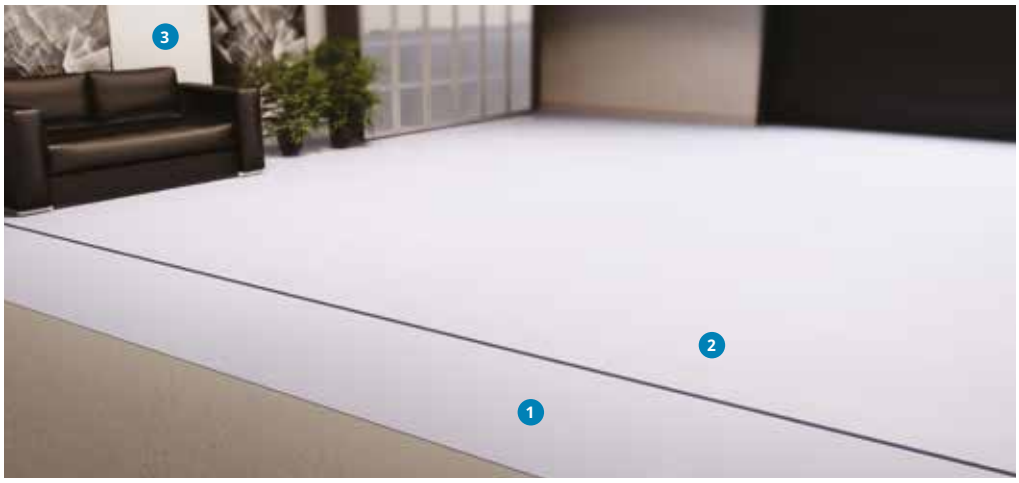
1. Moist concrete with high alkalinity
2. Vapour barrier
   - KÖSTER VAP I 2000
   - KÖSTER VAP I 2000 UFS
3. Floor coating
   - KÖSTER LF-VL
   - KÖSTER PS Flex



Floor coatings for balconies, terraces, commercial and private areas

1. Substrate
2. Levelling
   - KÖSTER SL Protect
3. Floor coating
   - KÖSTER CT 227 1C Silane
4. Decorative layer
   - KÖSTER Color-Chips
5. Broadcast fixation
   - KÖSTER CT 327 1C Sealer
6. Protection
   - KÖSTER Anti-Slip Granulate 20
   - KÖSTER Top Coat 1C Matte

Floor coatings which are exposed to moderate stresses



1 Primer
KÖSTER CT 215
Universal Floor
2 Floor coating
KÖSTER CT 215
Universal Floor
3 Surface protection (wall)
KÖSTER Silicone
Paint White

1 Substrate
2 Primer
KÖSTER CT 215
Universal Floor
3 Floor coating
KÖSTER CT 215
Universal Floor
4 Decorative layer
KÖSTER Color-Chips
5 Protection
KÖSTER Anti-Slip Granulate 20
KÖSTER TS transparent
6 Surface protection (wall)
KÖSTER Silicone Paint White

Floor coatings which are exposed to heavy stresses

1 Substrate
2 Primer
KÖSTER CT 121
KÖSTER VAP I 2000
3 Slip resistance (optional)
Quartz Sand
4 Floor coating
KÖSTER LF-VL

ESD Flooring System (electrostatic discharge)

1 Primer
KÖSTER CT 121
2 Conductive Coating
KÖSTER ESD 175
3 Ground
KÖSTER ESD 476
4 Top Coat
KÖSTER ESD 275

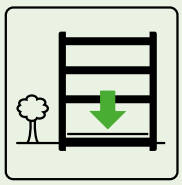
Parking garages and trafficked surfaces with high mechanical stresses with the KÖSTER OS 8 System

1 Substrate
2 Primer
KÖSTER CT 121
Quartz Sand 0.06 - 0.36 mm
3 Broadcast
Quartz Sand 0.4 - 0.8 mm
4 Top Coat
KÖSTER CT 221

Hygienic protective coating for the food production industry

1 Substrate
2 Floor coating and underlayment
KÖSTER UC 100
KÖSTER UC 300

Corrosion protection



Corrosion protection is of primary concern, particularly in the industry and agriculture sectors, where there is a variety of areas with increased requirements; for example, such as high resistance against acids and alkalis.
In order to guarantee a long service life floor in production areas, warehouses or surfaces in tanks, they must all be protected with long-term solutions. KÖSTER provides systems for the effective protection of mineral substrates as well as steel surfaces.

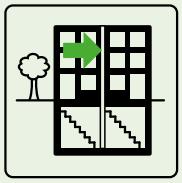
Corrosion protection of steel

1. Corrosion protection
   KÖSTER Corrosion Protection
2. Corrosion protection (crack bridging)
   KÖSTER CT 228 Flex

Protection system for cooling towers

1. Gritblasted concrete
2. Waterproofing layer
   KÖSTER NB 1 Grey
3. Protection of the Waterproofing layer
   KÖSTER TG 500 2C
4. Gritblasted concrete
5. Waterproofing layer
   KÖSTER NB 1 Grey
6. Painting
   KÖSTER Acrylic Paint

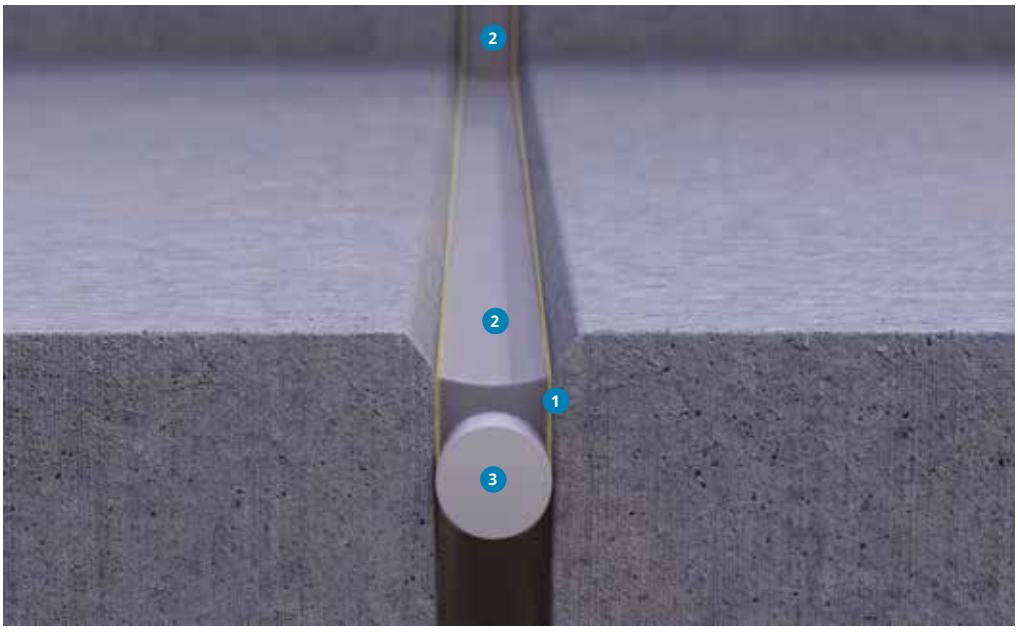
Joint sealing



Joints in construction members are necessary to accommodate movements between them. Sealing these joints safely, means to seal them permanently elastic, form stable and UV-resistant. This allows for future movements of the construction members without causing damages.

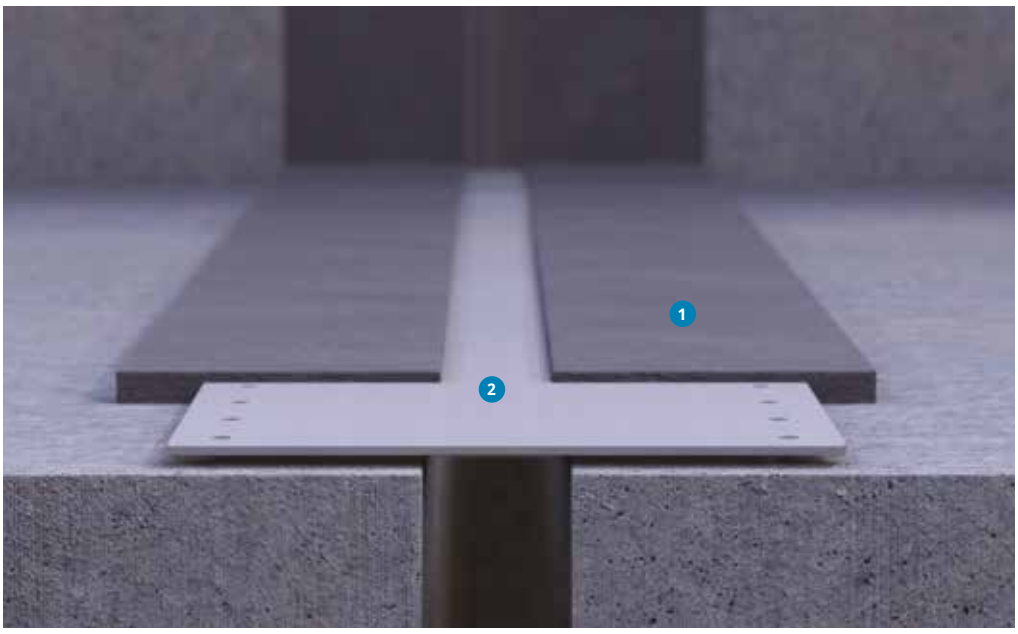
Joint sealing on mineral and metal surfaces

1. Primer
   - KÖSTER FS Primer 2C
2. Joint sealing
   - KÖSTER Joint Sealant FS-H black
   - KÖSTER Joint Sealant FS-H grey
   - KÖSTER Joint Sealant FS-V black
   - KÖSTER Joint Sealant FS-V grey
3. Backing rod



Joint sealing on dilatation joints and other moving joints

1. Primer
   - KÖSTER KB-Pox Adhesive
2. Joint sealing
   - KÖSTER Joint Tape 20
   - KÖSTER Joint Tape 30



Joint Sealing in Tunnel Constructions

1. Pump
   KÖSTER Acrylic Gel Pump
2. Special rubber sealing system
3. Injection needle
4. Joint sealant
   KÖSTER Injection Gel S4 with B+
5. Joint protection
   KÖSTER PU-Flex 25

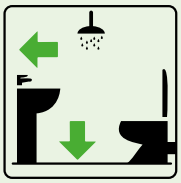
Injection of expansion joints

1. Injection packer
   KÖSTER Packer
   13 mm x 130 mm CH
   KÖSTER Superpacker
   13 mm x 130 mm CH
2. Joint waterproofing
   KÖSTER Injection Gel S4 with B+

Waterproofing of cable and pipe penetrations

1. Penetration
2. Backing
3. Waterproofing
   KÖSTER KB-Flex 200
4. Protection layer
   KÖSTER KB-Fix 5

Wet room waterproofing

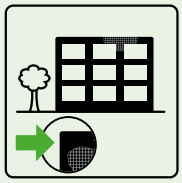


In these sensitive parts of the building, moisture can lead to severe damage to the entire building. Discoloration and tiles which are falling off the substrate are the first visible signs of such damages. Such rooms are waterproofed completely, in order to protect the substance of the structure. The entire wall and floor areas are seamlessly waterproofed. Seamlessly waterproofed with a system able to bridge possible cracks.

Wet room waterproofing with liquid synthetics

1. Primer
   - KÖSTER BD 50 Primer
2. Waterproofing corners and wall floor junctions
   - KÖSTER BD Flex Tape K 120
   - KÖSTER Superfleece
3. Waterproofing outside corners
   - KÖSTER BD Outside Corner
   - KÖSTER Superfleece
4. Waterproofing inside corners
   - KÖSTER BD Inside Corner
   - KÖSTER Superfleece
5. Waterproofing wall penetrations
   - KÖSTER BD Wall Sleeve
   - KÖSTER Superfleece
6. Waterproofing floor drains
   - KÖSTER BD Floor Sleeve
   - KÖSTER Superfleece
7. Waterproofing layer
   - KÖSTER BD 50
   - KÖSTER BD 50 Contrast
8. Tile adhesive
   - KÖSTER BD Flexible Tile Adhesive

Façade protection

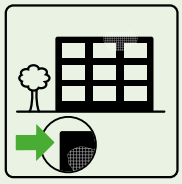


Climatic influences and the resulting penetration of moisture into the substrate often lead to damages to the façade. In order to protect façades made of mineral building materials, impregnations are used to make the surface water repellent. These hydrophobic agents penetrate deeply into the substrate, and dry without leaving residues, so that the visual appearance of the façade is not affected by the impregnation.

Protecting façades made of mineral building materials

1 Surface protection
KÖSTER Façade Cream
KÖSTER Siloxan

Protecting concrete surfaces on bridges and aqueous environments

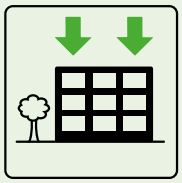


Exterior concrete structures such as bridges, highways, supporting walls, stadium columns, etc., are exposed to environmental conditions such as driving rain, contaminants and salts, that when dissolved in water, may enter the structure and cause deterioration of the concrete substance. A hydrophobization of the structure will reduce the water intake, protecting the structure from corrosion and prolonging its lifespan.

Protecting concrete surfaces on bridges and aqueous environments

1 Surface protection
KÖSTER Iperlan

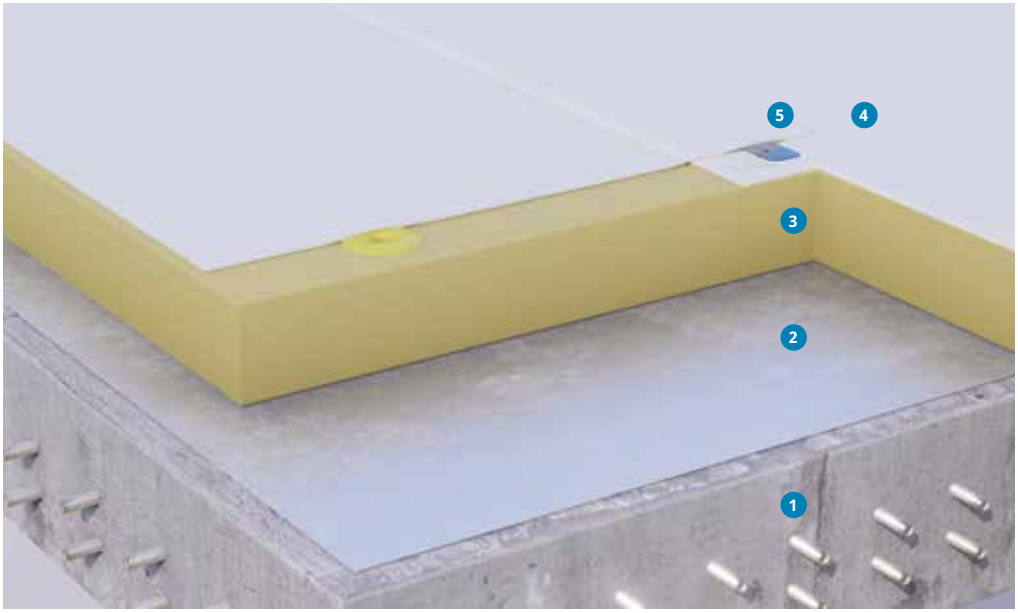
Roof waterproofing with membranes

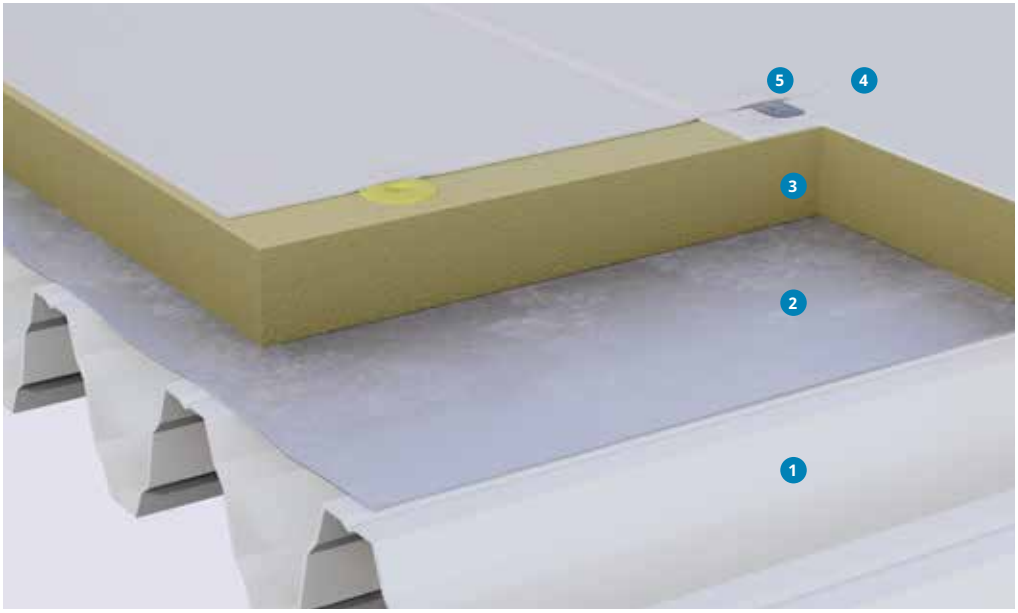


Roofs are the most stressed part of a building. The roofing membrane is exposed to a diversity of agents that accelerate the degradation of the material. Sunlight, UV radiation, wind, pollution, snow and frost, temperature fluctuations, hail and lightning storms are only a few of the big list of influences that the membrane is exposed on a flat roof. Also the huge diversity of equipments (AC, chimneys, etc) that are normally installed on flat roofs, can easily promote the premature aging of the materials and reduce its lifespan.
Therefore, the roofing membranes need to be highly resistant and have a lasting life protecting the roof without interfering with the environment.

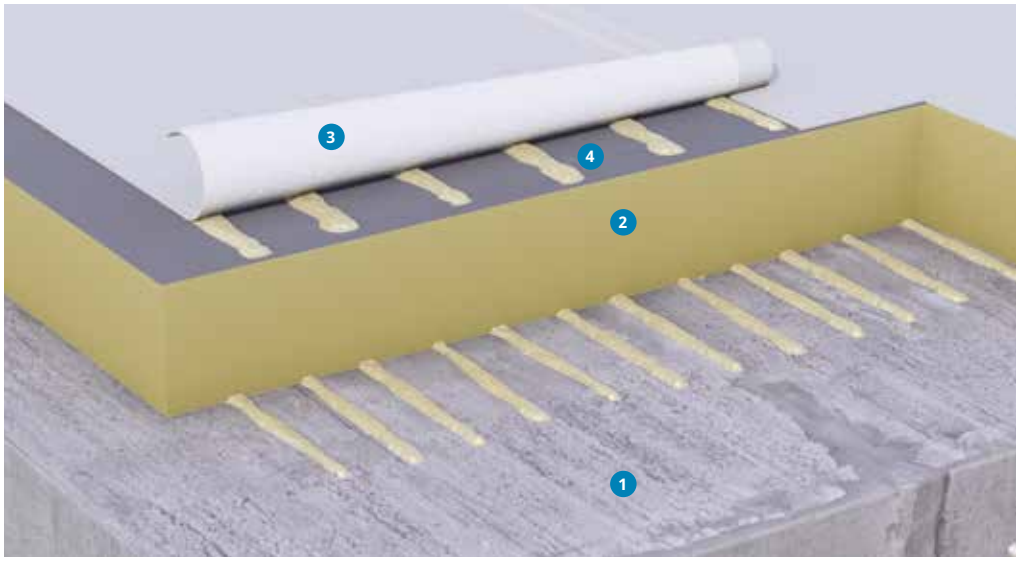
Roof waterproofing with mechanically fastened membranes

1. Substructure
2. Vapor Barrier
   - Vapor Barrier FR
3. Insulation
4. KÖSTER TPO Membrane
   - KÖSTER ECB 2.0
   - KÖSTER TPO 1.2
   - KÖSTER TPO 1.5
   - KÖSTER TPO 1.8
   - KÖSTER TPO 2.0
   - KÖSTER TPO Pro 1.5
   - KOSTER TPO Pro 1.8
5. Mechanical fasteners



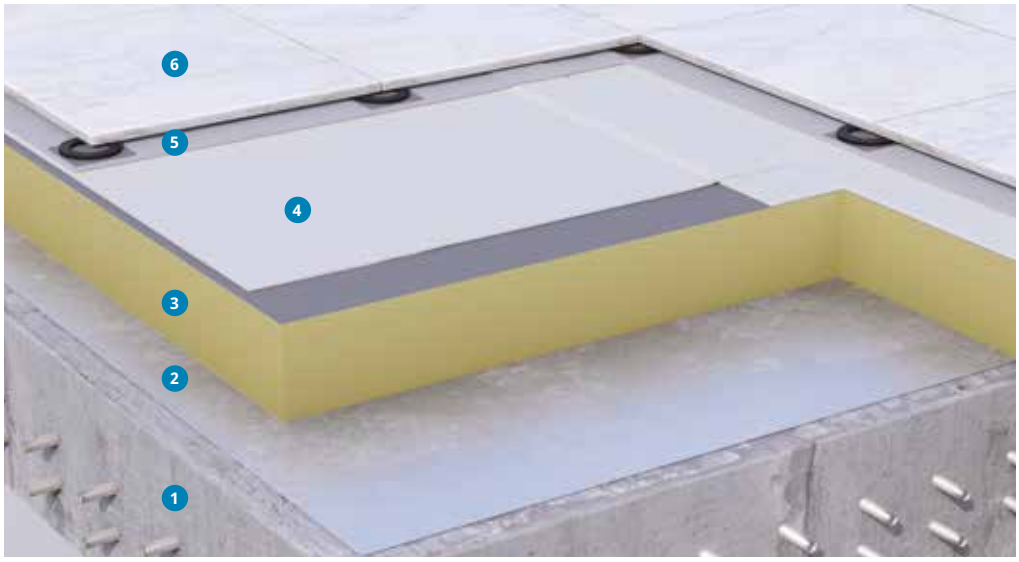


Roof waterproofing with bonded membranes

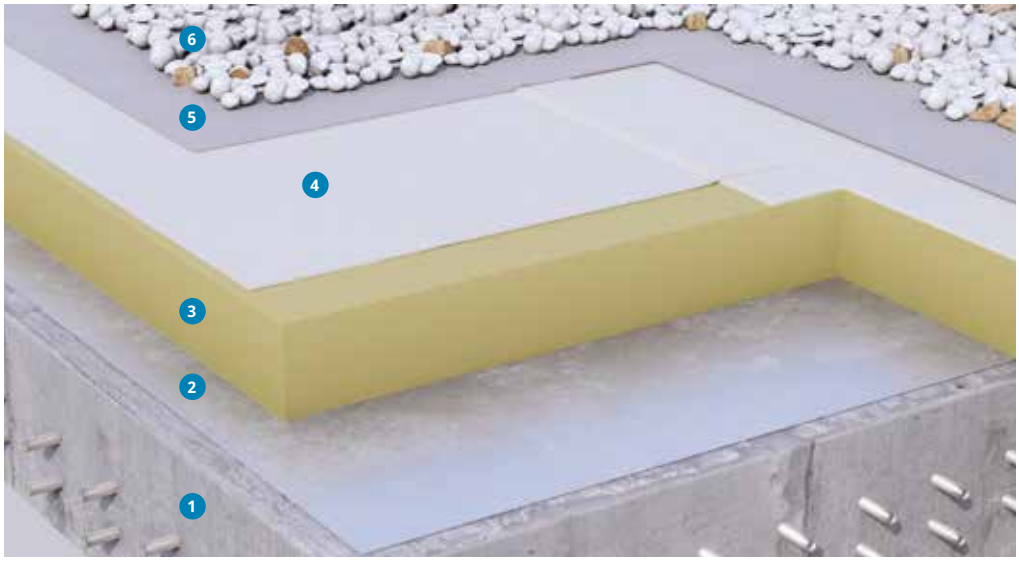


1 Substructure
2 Insulation
3 KÖSTER TPO Membrane
KÖSTER TPO 2.0 F
4 Adhesive
KÖSTER 2C PUR Membrane Adhesive
KÖSTER PUR Membrane Adhesive

Roof waterproofing with loose-laid membranes

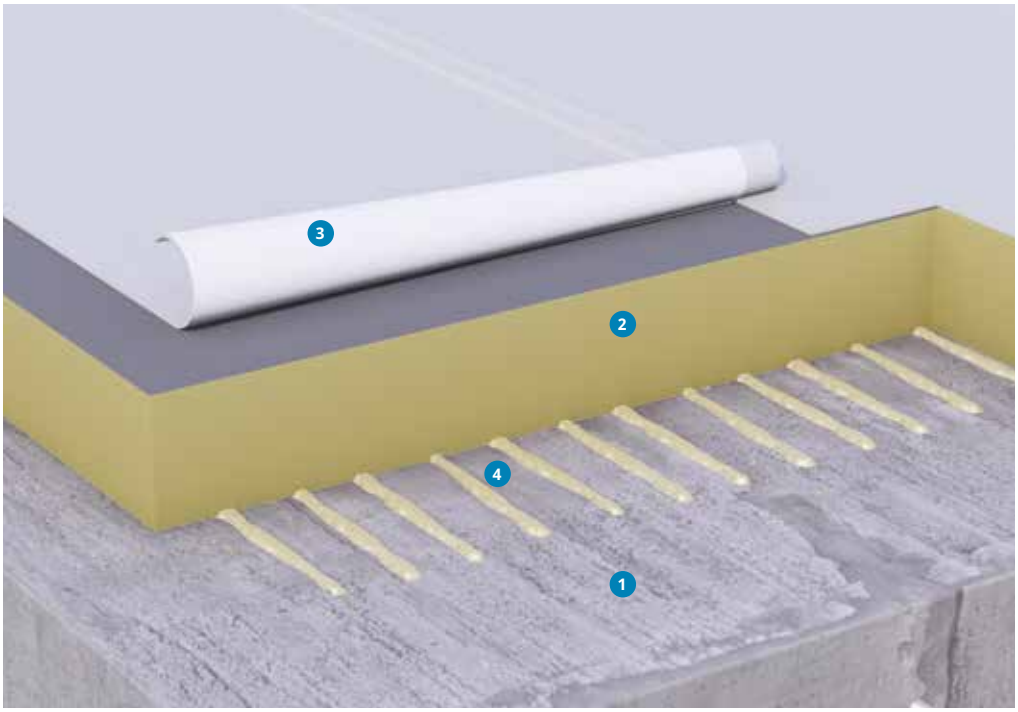


1 Substructure
2 Vapor Barrier
Vapor Barrier FR
3 Insulation
4 KÖSTER TPO Membrane
KÖSTER ECB 2.0
KÖSTER TPO 1.5
KÖSTER TPO 1.8
KÖSTER TPO 2.0
KÖSTER TPO Pro 1.5
KOSTER TPO Pro 1.8
5 Protection Layer
6 Ballast System



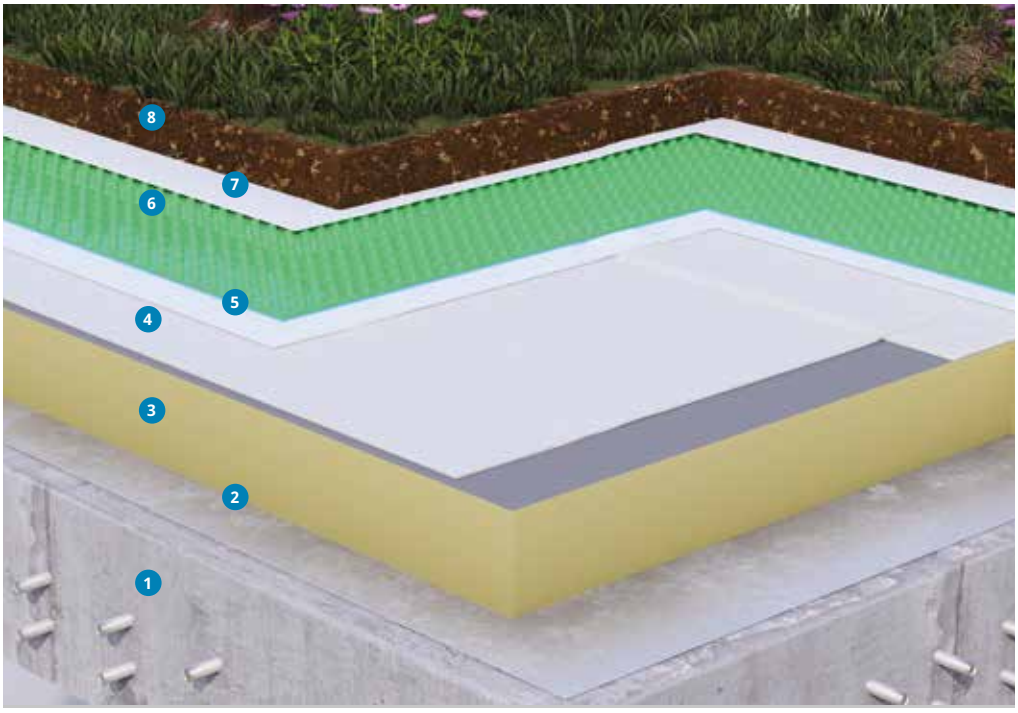
Roof waterproofing with self-adhered membranes

1. Substructure
2. Insulation
3. KÖSTER TPO Membrane
   - KÖSTER TPO 1.5 SK (FR)
   - KÖSTER TPO 2.0 SK (FR)
4. Adhesive
   - KÖSTER PUR Membrane Adhesive
   - KÖSTER 2C PUR Membrane Adhesive

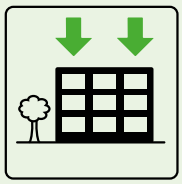


Roof waterproofing on green roofs

1. Substructure
2. Vapor Barrier
   - Vapor Barrier FR
3. Insulation
4. KÖSTER TPO Membrane
   - KÖSTER TPO 1.8
   - KÖSTER TPO 2.0
5. Protection Layer
6. Drainage Sheet
   - KÖSTER SD Protection and Drainage Sheet 3-400
7. Protection Layer
8. Ground / Greenery / Landscaping



Flat roof waterproofing with liquid applied systems



Concrete roofs are often difficult to waterproof with membranes due to numerous penetrations and complex geometry. KÖSTER has developed several liquid applied elastic waterproofing systems for roofs based on different types of technologies from the mineral base material to the MS polymer technology. Any of the options available are directly applied onto the prepared concrete substrate by roller, brush or spraying.

Roof waterproofing with MS polymer liquid membrane

1. Concrete Repair
   KÖSTER Betomor Multi A
2. Installing fillets
   KÖSTER WP Mortar
3. Primer
   KÖSTER CT 121
4. Waterproofing wall / floor junctions
   KÖSTER MS-Flexfolie with KÖSTER Superfleece
5. Waterproofing layer
   KÖSTER MS-Flexfolie

Roof waterproofing with resin base liquid membrane

1. Concrete Repair
   KÖSTER Betomor Multi A
2. Primer
   KÖSTER Polysil TG 500
3. Installing fillets
   KÖSTER WP Mortar
4. Waterproofing wall / floor junctions
   KÖSTER Dachflex with KÖSTER Superfleece
5. Waterproofing layer
   KÖSTER Dachflex
6. Reinforcement
   KÖSTER Flex Fabric
   KÖSTER Glass Fiber Mesh

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