Technical Data Sheet
Art. No. 0870

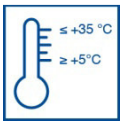
Profi Tight 1K

Crack-bridging, single component building waterproofing

Polymer modified Profi Tight 1K with rubber fillers. Top quality product for waterproofing buildings

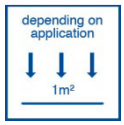
Water based


For use outdoors und Bodenflächen innen



Working temperature


Filling knife / applied with a trowel



Application rate per coat


Store frost-free and cool protected from/ moisutre in closedcontainers

Shelf-life

Range of use

Profi Tight 1 K is used to waterproof in areas with ground contact against ground damp and non-standing seepage water according to DIN 18195, part 4, against moisture on ceiling surfaces and in wet rooms according to DIN 18195, part 5, against standing seepage water according to DIN 18195, part 6 and also against external water pressure when used in the Remmers Kiesol System.

- Basement walls
- Foundations
- Floor slabs
- Pipes passing through walls with ground damp and non-standing seepage water
- Intermediate water proofing under screeds in:
  - Wet and damp rooms
  - Balconies (without living space below)
  - Terraces (without living space below
- Protection against radon (see Test Report)

Characteristic data of the product

Base:	Polymer bitumen emulsion with special fillers
Density:	1.0 kg/l
Consistence:	paste, thixotropic
Resistance to heat AIB:	+ 120° C
Water impermeability according to DIN 1048 / 7 bar:	passed
Cross-slit pressure test according to DIN 15820:	fulfilled, also without a layer of reinforcement
Pressure behaviour:	Constant dry layer thickness
Test with pressure load = 0.3 MN/m²:	> 80 %
Time until thoroughly dry:*	2 days (20°C/70 % rel. humidity)
Layer thickness:	1 mm fresh layer = 0.75 mm dry layer thickness

* Depending on weather conditions and the thickness of the fresh layer, the time given may be shorter or longer.

Property profile

Profi Tight 1K is an environment-friendly, solvent-free, highly reliable waterproofing for buildings that is very easy to apply. It has outstanding properties and corresponds to DIN 18195.

- Environment-friendly because solvent-free
- Highly flexible, expansion capable and crack-bridging
- Easy to apply, can also be sprayed
- Water pressure tight in the Kiesol System

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- Component in the 10-year Remmers System Guarantee (RSG)
- Resistant to aggressive water up to a degree of 'strong attack' according to DIN 4030
- Resistant to algae and de-icing salts, rot-proof
- Highly compression resistant > 0.3 MN/m²
- Radon tight (see Test Report)
- Not hazardous to ground water
- Adheres to all cementitious substrates, even matt damp
- Can be applied directly to masonry without a layer of render
- For vertical and horizontal surfaces and beneath screeds

Substrate

All mineral substrates such as sand-lime brick, brick, pre-cast concrete stone, concrete, aerated concrete and cement screed are suitable.
The substrate must be clean and sound as well as free of oil, grease and release agents. Matt damp surfaces are permitted. The substrate must be solidly filled and plane. Remove projecting seams and the remains of mortar. Break or slope off corners and edges, especially on floor slabs and cantilevered slabs. Indentations > 5 mm such as mortar pockets, open vertical and horizontal joints and broken out areas must be closed with a suitable mortar, e.g. Remmers Waterproofing Filler.

Waterproofing new buildings

Sealing cove:
Produce a sealing cove in the clean wall position area with a radius of 5 cm. To improve adhesion and to protect from moisture penetration from behind, silicification treatment consisting of Kiesol (diluted 1:1 in water) and Remmers Waterproofing Grout is applied from 10 cm below the upper edge of the slab up over the 2nd horizontal joint (however, at least 20 cm high).
Wet-on-wet, place a sealing cove. On wet substrates, silicification treatment should be executed over the entire surface.
If it has been ensured through constructional measures that moisture cannot penetrate from behind, only the sealing cove area is prepared by grouting. Surfaces without protection against moisture penetration from behind are primed with Kiesol (diluted 1:1 with water). On dry surfaces, the substrate can alternatively be primed with 1:10 in water). For external water pressure and standing seepage water, basic silicification treatment consisting of Kiesol (diluted 1:1 in water) and Waterproofing Grout should be carried out first. This should be executed up to 15 cm below the upper edge of the slab.
A scratch coat should be applied to concrete as well as masonry stone with profiled surfaces after priming to level the substrate and prevent blisters. In the case of substrates with inherent porosity (e.g. concrete blocks or light-weight concrete blocks), apply a scratch coat to produce a closed surface.

Vertical surface waterproofing:
Two layers of Profi Tight 1K are applied to the substrate after Kiesol is air-dry or the scratch coat has thoroughly dried. The second layer is applied as soon as the first has hardened sufficiently and will not be damaged when worked over. The minimum application rates for each load case should be observed, checked in the fresh state and, in the case of standing seepage water and external water pressure, documented. Make sure that only the prescribed layer thickness is applied in sealing cove areas to ensure that the coating can dry thoroughly.
If a layer of reinforcement fabric is required according to DIN 18195, part 6., Reinforcement Fabric 2.5/100, Art. No. 4176, should be worked into the first layer. Reinforcement fabric should always be placed over joints in the element.

Horizontal surface waterproofing:
When waterproofing against ground damp and non-standing seepage water, prime the floor slab as described for vertical surfaces with Kiesol (no pools). Apply Profi Tight 1K in two uniform layers, pore-free. After the waterproofing has thoroughly dried, two layers of PE sheet are placed over the waterproofing as a parting plane and for protection before the screed is placed. Waterproofing against standing seepage water or water pressure is carried out on the reinforced sub-layer of concrete beneath the floor slab. Prime first by applying a silicification treatment. When waterproofing balconies, terraces and in wet cell areas, Profi Tight 1K is applied up to the upper edge of the finished floor or the horizontal barrier in the walls.

Pipes passing through walls

In cases of ground damp and non-standing seepage water, waterproof around pipes passing through walls flexibly with Profi Tight 1K in cove form by applying a layer max. 10 mm thick.
Roughen plastic pipes with sandpaper. Clean metal pipes and sand if necessary. Then prime with Ilack ST and blind with sand. After the solvents have flashed off, waterproof as described above. For moisture loads, pipes passing through walls are integrated in the waterproofing with adhesive flange or loose/fixed flange. Loose/fixed flanges must be used for standing seepage water.
Pipe Flange can be used for all of the loads stated above.

Subsequent external waterproofing:

Clean the exposed substrate thoroughly. Remove all loose parts, friable joints and hollow render and renew with Remmers Undercoat Render. After the substrate has been properly prepared it can be waterproofed in the same manner as for new buildings. Any existing, tightly adhering bituminous waterproofing is primed after drying with Elastogrout 1K or Ilack ST. Ilack ST is blinded with fire-dried quartz sand, grain size up to 1.0 mm, while fresh. After the solvents have completely evaporated (at the earliest after 48 hours), apply two layers of Profi Tight 1K.

Protection/drainage layer

As soon as the waterproofing has thoroughly dried, it must be protected from mechanical damage and UV-radiation. To protect the waterproofing system, we recommend our DS System Protection, Art. No. 0823, which fulfils the requirements for filling protection in DIN 18195, part 10, and the Thick Coating Guideline and is also the vertical part of a drainage facility according to DIN 4095.

Materials that exert a point or line load on the waterproofing may not be used.

Directions

Profi Tight 1K is a ready to use product and can be worked directly out of the can without stirring.

Notes

The ambient and substrate temperature should be +5 to 35 °C. Do not use in direct sunlight; work should be carried out corresponding to rules for applying render in the sun in the morning or evening hours. In the fresh state the waterproofing is sensitive to rain and frost. This product is not suitable for waterproofing under elevated piles.
Observe DIN 18195, the latest Thick Coating Guideline and the valid Technical Information Sheets for the products that are components of the system.

Tools, cleaning

Smoothing trowel, smoothing float, filling knife, tongue trowel, spraying equipment.
As long as the coating material is still fresh, it can be removed with water, otherwise use V 101 Thinner for cleaning.

Packaging, application rate, shelf-life Shelf-life:

Packaging:
30 kg, 10 kg tin cans

Application rate:

- Basic silicification treatment:
  0.1 kg/m² Kiesol and 1.6 kg/m² Waterproofing Grout
- Sealing cove:
  1.7 kg/m Waterproofing Filler
- Priming:
  0.1 kg/m² Kiesol or Kiesol red

Coating:

- Ground damp and non-standing seepage water:
  At least 4.0 kg/m² Profi Tight 1K
- Moisture:
  At least 4.0 kg/m² Profi Tight 1K
- Standing seepage water:
  At least 5.5 kg/m² Profi Tight 1K
- External water pressure:
  At least 5.5 kg/m² Profi Tight 1K
- Scratch coat:
  approx. 1.5 kg/m² Profi Tight 1K
- Adhesive for cementing perimeter insulation:
  approx. 1.5 kg/m² Profi Tight 1K

Depending on how the material is applied, application rates may be higher.

Shelf-life:
At least 12 months in closed, original containers stored frost-free, dry and protected from stronger heat.

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.

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EN 15814:2012

EN 15814; PMB-CB2-W2B-C2A

Polymer modified, bituminous thick coating (PMBC).
for waterproofing in below ground structures

Water tightness	Class W2B
Crack-bridging ability	Class CB2
Water resistance	No colouration of the water No debonding from inlay
Flexibility at low temperature	No cracks
Dimensional stability at high temperatures	No sliding or draining down
Reaction to fire	Class E
Resistance to compression	Class C2A
Durability of water tightness and reaction to fire	passed

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