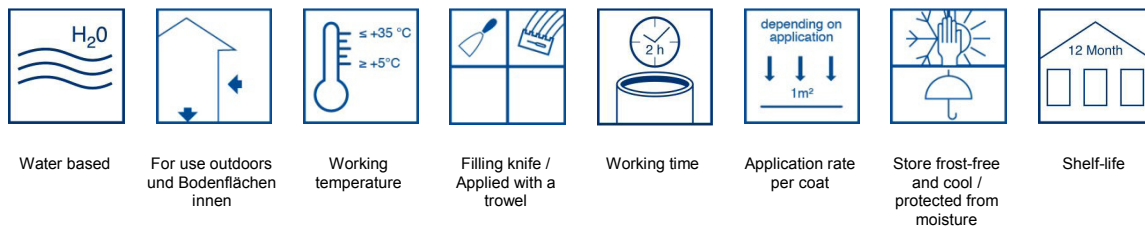




Technical Data Sheet Art. No. 0886

Profi Tight 2K

Patented, 2-component building waterproofing
Polymer modified, bitumen thick coating with rubber fillers. Top quality product for waterproofing buildings with a National Test Certificate issued by MPA Bau TU Munich



Water based

For use outdoors
und Bodenflächen
innenWorking
temperatureFilling knife /
Applied with a
trowel

Working time

Application rate
per coatStore frost-free
and cool /
protected from
moisture

Shelf-life

Range of use

Remmers Profi Tight 2 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 Kiesol System (see also Examination Report 1305/4371b issued by MPA TU Braunschweig).

- Basement walls, foundations, floor slabs
- Pipes passing through walls with ground damp and non-standing seepage water
- For exterior strip waterproofing of construction joints in water impermeable concrete structures with Reinforcement Fabric 2.5/100 (see Examination Report)

- Adhesive for cementing perimeter insulation
- Intermediate waterproofing under screeds in:
 - Wet and damp rooms
 - Balconies (without living space below)
 - Terraces (without living space below)
- Protection against radon
- Also for use on combination

construction (connection to water impermeable concrete)

Property profile

Profi Tight 2K is an environment-friendly, solvent-free, highly reliable waterproofing for buildings that is very easy to apply. Its properties correspond to DIN 18195.

- Environment-friendly because solvent-free



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Characteristic data of the product

Base:	polymer bitumen emulsion with special fillers
Density of ready to use mixture:	approx. 1.00 kg/dm ³
Consistence:	paste
Resistance to heat AIB:	+ 140° C
Water impermeability according to DIN 1048 / 7 bar:	passed
Cross-slit pressure test according to EN 15820:	passed, also without a layer of reinforcement
Behaviour under pressure:	Constant dry layer thickness
Test with pressure load > 0.3 MN/m ² :	> 80 %
Time until thoroughly dry:* 20°C/ 70 % relative humidity:	approx. 48 hours
Layer thickness:	1 mm fresh layer = 0.8 mm dry layer thickness

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

- Highly flexible, expansion capable and crack-bridging
- Easy to apply, can also be sprayed
- Water pressure tight even without a layer of reinforcement (see Test Report)
- Extremely compression resistant (see Examination Report)
- Resistant to water that attacks concrete up to a degree of 'strong attack' according to DIN 4030
- Resistant to algae, rot and de-icing salts
- 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
- Very quickly rain tight through reaction components
- For vertical and horizontal surfaces and beneath screeds
- Economical through high solid content
- Component in the 10-year Remmers System Guarantee (RSG)

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 with Waterproofing Filler. 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 the penetration of moisture from behind should be primed with Kiesol (diluted in water 1:1). On dry substrates, especially concrete substrates, Protective Coating (diluted 1 : 10 with water) is recommended for priming.

For external pressure water and standing seepage water, basic silicification treatment consisting of Kiesol (diluted 1:1 in water) and Waterproofing Grout is carried out first which should be applied down 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:

After the primer Kiesol is air-dry or Protective Coating has thoroughly dried and the scratch coat has also thoroughly dried, two layers of Profi Tight 2K are applied to the substrate. 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.

Substrate

All mineral substrates such as sand-lime brick, brick, pre-cast concrete stone, concrete, aerated

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 2K 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 2K is applied up to the upper edge of the finished floor or the horizontal barrier in the walls.

Joints, connection to water impermeable concrete

Prime the substrate to be coated with Kiesol (diluted 1:1 with water) approx. 5 cm above the edges of the intended width of the joint waterproofing. Joint waterproofing with Profi Tight 2K is then carried out on the prepared substrate in two working operations. The layer of Reinforcement Fabric 2.5/100 must extend over the entire width of the joint waterproofing. The fabric is worked into the first layer of Profi Tight 2K S and completely covered by the second layer.

Pipes passing through walls

In cases of ground damp and non-standing seepage water, waterproof pipes passing through walls flexibly with Profi Tight 2K in cove form by applying a layer max. 10 mm thick. Roughen plastic pipes with sandpaper. Clean metal pipes and sand if necessary. Prime with Remmers 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 an adhesive flange or loose/fixed flange. Loose/fixed flange constructions must be used for standing seepage water. Remmers Pipe Flange can be used for all of the loads stated above.

Subsequent external waterproofing**Substrate pre-treatment:**

Remove all loose parts, friable joints and hollow render and renew with Remmers Undercoat Render. 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 Remmers ElastogROUT, Multi-Tight 2K or Ilack ST.

Blind Ilack ST 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 2K.

Waterproof basements without bitumen waterproofing the same as new buildings.

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 should not be used.

Mixing/application

The two components are packaged in the proper mixing ratio. The bag with the powder is in the tin can. The anchor mixing tool (Art. No. 4249) must be used for mixing. Place the drill with anchor mixing tool in the bucket with the

bitumen emulsion, add the powder and start mixing (700-900 rpm). After approx. 30 seconds, stop mixing and lift the idle anchor mixing tool out of the material to allow entrapped air to escape. Scrape any powder on the side of the bucket back into the emulsion, return the anchor mixing tool back on the bottom of the container and continue mixing for at least 2 minutes until the material is lump-free.

The anchor mixing tool must remain at the bottom of the bucket during the entire mixing process. Working time of the mixed material is 1 - 2 hours.

Depending on temperature, working and setting time may be shorter or longer.

The layer applied should be as uniform as possible (target + 1 mm).

Notes

The ambient and substrate temperature should range between +5 and +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

Anchor mixing tool with an adjustable drill (1000 watt) or mixer (700 - 900 rpm.) 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 and 30 kg combination container, emulsion and powder component packaged in the proper

mixing ratio (the powder is inside the can).

Application rate:

- Per 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 2K
- Moisture:
At least 4.0 kg/m² Profi Tight 2K
- Standing seepage water:
At least 5.5 kg/m² Profi Tight 2K
- External water pressure:
At least 5.5 kg/m² Profi Tight 2K
- Scratch coat:
Approx. 1.5 kg/m² Profi Tight 2K
- Adhesive for cementing perimeter insulation:
Approx. 1.5 kg/m² Profi Tight 2K

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

Shelf-life:

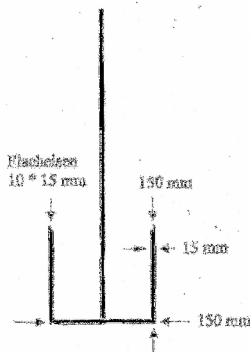
At least 12 months in closed, original containers stored frost-free, dry and protected from stronger heat.

Safety, ecology, disposal

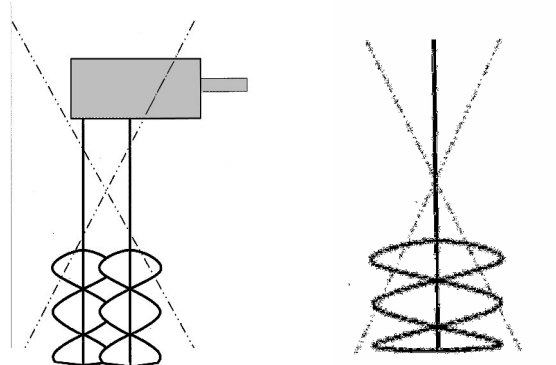
Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.




Notes on mixing tools



Anchor mixing tool, Art. No. 4249



Not suitable mixing tools

 0432	
Remmers GmbH Bernhard-Remmers-Str. 13 D – 49624 Lönigen 14 GBI F 029-1	
EN 15814:2012 EN 15814; PMB-CB2-W2B-C2A Polymer modified, bitumen thick coatings (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

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

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Remmers (UK) Limited Crawley
 United Kingdom
 Tel: +44(0) 845 373 0103
 Fax: +44(0)845 373 0104
www.remmers.co.uk