



Technical Information Sheet Article No. 0886

Profii Tight 2K

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

Range of use

Remmers Profii Tight 2K is used for waterproofing in areas with ground contact against ground damp and non-standing seepage water according to DIN 18195 - part 4, against moisture on ceilings and in wet rooms according to DIN 18195 - part 5, against standing seepage water according to DIN 18195 - part 6 and also against water pressure from the exterior in the Kiesol System (see Examination Report 1305/4371a issued by MPA TU Braunschweig).

- Cellar walls, foundations and floor slabs
- Pipes passing through walls in case of moisture and non-standing seepage water
- Exterior strip waterproofing of construction joints in water impermeable concrete structures with Remmers Reinforcement Fabric 2.5/100 (see Examination Report)
- Adhesive for cementing perimeter insulation
- Intermediate waterproofing beneath screeds in:
 - Wet and damp rooms
 - Balconies (without living space beneath)
 - Terraces (without living space beneath)
- Protection against radon (see Test Report)
- Also for use in combination construction (connecting to water impermeable concrete)



Characteristic data of the product

Base:	Plastic-bitumen emulsion with special fillers
Density of the ready to use mixture:	approx. 1.00 kg/dm ³
Consistence:	paste form
Solid content:	approx. 80%
Heat resistance AIB:	+140 °C
Water impermeable according to DIN 1048 / 7 bar:	fulfilled
Time until thoroughly dry*:	approx. 48 hours
20 °C/70% relative humidity	
Cross-slit pressure test according to National Test Certificate:	fulfilled, even without a layer of reinforcement
Pressure behaviour:	Constant dry layer thickness
Test with pressure load > 0.3 MN/m ² :	> 80 %
Layer thickness:	1 mm thick fresh layer = 0.8 mm thick dry layer

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

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Property profile

Remmers Profi Tight 2K is an environment-friendly, solvent-free, highly reliable and very easy to work waterproofing material for buildings with excellent properties. It corresponds to DIN 18195, edition 2000-08.

- Environment-friendly since it does not contain solvents
- Highly flexible, expansion capable and crack-bridging
- Easy to work, can also be sprayed on
- 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 "strong attack" according to DIN 4030
- Alga and rot proof, resistant to de-icing salts
- Radon tight (see Test Report)
- Not hazardous to ground water
- Adheres to all mineral substrates, even matt damp
- Can be used directly on the masonry work without a layer of render
- Quickly rain tight through reaction components
- For vertical and horizontal surfaces and beneath screeds
- Economical because of high solid content
- Component of the 10-year Remmers System Guarantee (RSG)

Substrate

All mineral substrates such as sand-lime brick, brick, concrete blocks, 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 substrates are permitted. The substrate must be solidly filled and plane. Remove projecting seams and the remains of mortar. Break off or slope corners and edges, especially on floor slabs and cantilevered slabs. Indentations > 5 mm such as mortar pockets, open vertical and horizontal joints or broken out areas should be closed with a suitable mortar, e.g. Remmers Waterproofing Filler.

Waterproofing new buildings

Sealing cove:

Produce a sealing cove in the cleaned wall positioning area with a radius of 5 cm. To improve adhesion and for protection against moisture penetration from behind, apply a silicification treatment consisting of Kiesol (diluted 1:1 in water) and Remmers Waterproofing Grout from 10 cm beneath the upper edge of the slab to above the 2nd horizontal joint (however, at least 20 cm high). Wet-on-wet, place the sealing cove made of Remmers Waterproofing Filler. On wet substrates, silicification treatment should be applied 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, Remmers Protective Coating 3K (1 : 10 with water) can alternatively be used for priming. In case of water pressure from the exterior and standing seepage water, basic silicification treatment consisting of Kiesol (1:1 with water) and Waterproofing Grout is carried out to 15 cm below the upper edge of the slab.

A scratch coat should be applied to concrete and other masonry stone with a profiled surface after priming to level the substrate and avoid blisters. In the case of substrates with inherent porosity (e.g. concrete or light-weight concrete blocks), a scratch coat is applied to achieve a closed surface.

Vertical surface waterproofing:

Profi Tight 2K is applied in two layers after Kiesol has become air dry or Protective Coating 3K is thoroughly dry or the scratch coat has thoroughly dried. The second layer is applied as soon as the first layer has sufficiently dried and can be worked over without damage. The minimum application rates for the individual load cases should be observed, checked in the fresh state and, in case of standing seepage water and water pressure from the exterior, documented. To

ensure thorough drying in the sealing cove area, apply only the specified layer thickness. If reinforcement fabric is required according to DIN 18195-part 6, edition 08-2000, work Remmers Reinforcement Fabric 2.5/100, Art. No. 4176 into the first layer. Reinforcement fabric should always be placed over element joints.

Horizontal surface waterproofing:

When waterproofing against ground damp and non-standing seepage water, the floor slab should be primed as described for vertical surfaces (do not allow pools to form). Profi Tight 2K is then applied in two evenly thick 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 screed is placed. In case of standing seepage water or water pressure, waterproofing is carried out on the reinforced sub-layer of concrete beneath the floor slab. Basic silicification treatment is carried out first. When waterproofing balconies, terraces and in wet cell areas, Profi Tight 2K is applied up to the upper edge of the floor or up to the horizontal barrier in the walls.

Joints, connection to water impermeable concrete

The substrate to be coated is primed with Kiesol (diluted 1:1 with water) approx. 5 cm beyond the edge of the width of the joint waterproofing. The substrate of the prepared joint area is waterproofed with Profi Tight 2K in two working operations. The layer of Reinforcement Fabric 2.5/100 must extend over the entire width of the joint waterproofing. It is worked into the first layer of Profi Tight 2 K and completely covered with the second layer.

Pipes passing through walls

In case of ground damp and non-standing seepage water, waterproof pipes passing through walls flexibly by applying Profi Tight around the pipes in a cove form in

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 solvent has flashed-off, waterproof as described above. In case of moisture, a cemented or loose/fixed flange is integrated into the waterproofing for pipes passing through walls. Loose/fixed flange constructions are to be used for standing seepage water. Remmers Pipe Flange can be used for all loads.

Subsequent waterproofing from the exterior

Thoroughly clean the exposed substrate. Remove all loose material and hollow areas of render and chase out friable joints. Repair with Remmers Undercoat Render. After the substrate has been properly prepared it is waterproofed as described for new buildings. Old, tightly adhering bituminous waterproofing is primed after drying with Ilack ST. Ilack ST is blinded with fire-dried quartz sand, grain up to 1.0 mm, while still fresh. After the solvent has completely flashed-off (at the earliest after 48 hours), apply two coats of Profi Tight 2K.

Protection and drainage layer

After the waterproofing has thoroughly dried, it must be immediately protected from mechanical damage and UV-rays. To protect the layer of waterproofing, we recommend the use of Remmers 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 layer according to DIN 4095. Materials that exert a point and/or line load may not be used.

Directions

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

pour the powder over the bitumen emulsion and start mixing (speed: 700-900 rpm). After approx. 30 seconds, stop mixing. Lift the still-standing anchor mixing tool and let closed in air escape. Scrap off powder that adheres to the side and return to the can, place the anchor mixing tool back onto the bottom of the container and continue mixing until a lump-free consistency has been achieved which will take at least 2 minutes. **The anchor mixing tool must remain at the bottom of the container during the entire mixing time.**

The working time of the mixed material is 1-2 hours. Depending on temperature, working and setting time may be longer or shorter. The layer should be applied as evenly as possible (target + 1 mm).

Notes

The ambient and substrate temperature must be at least +5 °C. Do not use in direct sunlight; observe the rules for applying render and carry out work in the morning or evening hours. The waterproofing is sensitive to rain and frost in the fresh state. The product is not suitable for waterproofing under elevated piles.

Observe DIN 18195, version 08-2000, the latest Thick Coating Guideline as well as the valid Technical Information Sheets for the other products that are components in the system.

Tools, cleaning

Anchor mixing tool with an electronic drill (1000 watt) or mixer (700-900 rpm), smoothing trowel, trowel, filling knife, tongue trowel, spraying equipment. As long as the material has not dried, tools can be cleaned with water; otherwise with V 100 Thinner.

Packaging, application rate, shelf-life

Packaging:

30 kg and 10 kg combi-container, emulsion and powder components are packaged in the proper mixing ratio (powder is found in a bag in the container)

* 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

Water pressure from the exterior:

At least 5.5 kg/m² Profi Tight 2K

Scratch coat:

At least 1.5 kg/m² Profi Tight 2K

As an adhesive for cementing perimeter insulation:

At least 1.5 kg/m² Profi Tight 2K

Due to manual working techniques, application rates may be higher.

Shelf-life:

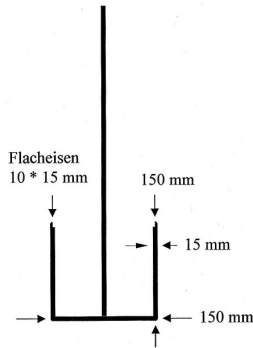
At least 12 months in unopened, original containers stored frost-free, dry and protected from strong heat.

Safety, ecology, disposal

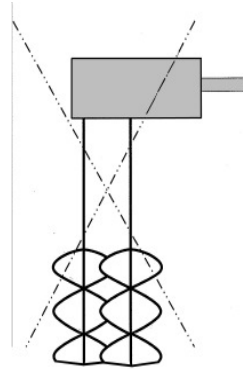
Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.



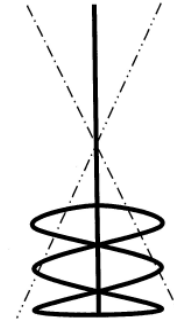
Notes on mixing tools



Anchor mixing tool, Art. No. 4249



Unsuitable mixing tool



Unsuitable mixing tool

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

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