

Technical Information Sheet
Article No. 1902

Spray-On Waterproofing 2K Rapid

Highly flexible, 2-component, solvent-free, bitumen-latex emulsion that can be sprayed airless
National Test Certificate MPA NRW

Range of use

Remmers Spray-On Waterproofing 2K Rapid is suitable for the following applications:

Single component: as a primer or protective coating

2-component: used together with a coagulant for waterproofing all cementitious substrates 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 and against standing seepage water according to DIN 18195, part 6 on

- Cellar walls
- Foundations
- Floor slabs

- Pipes passing through walls with ground damp and non-standing seepage water loads
- Intermediate waterproofing beneath screeds.

Property profile

Remmers Spray-On Waterproofing 2K Rapid is a solvent-free, crack-bridging, 2-component, polymer-bitumen coating.

Its properties correspond to the requirements of DIN 18195, part 2 as well as the German guideline for thick coatings.

- Environment-friendly since it has no solvents
- Highly expansion capable and crack-bridging
- Can be quickly worked
- Minimal cleaning work

- Immediately rain tight in any layer thickness
- Can also be worked in rain
- Resistant to concrete aggressive water up to a degree of "strong attack" according to DIN 4030
- Alga, rot and de-icing salt resistant
- Not hazardous to ground water
- Can be used on vertical as well as horizontal surfaces and beneath screeds



1902-TI-09.07

Characteristic data of the product

Emulsion component:

Solid content:	approx. 60 %
Viscosity 4 mm DIN cup/20 °C:	approx. 15 seconds

Film properties:

Density:	1.06 g/cm ³
Crack-bridging, 4 °C:	> 20 mm (DIN 28052-6) 3 mm dry layer
Resistance to cold:	- 18 °C (DIN 52123)
Resistance to heat:	130 °C
Water impermeability:	tight (DIN 52123, 1 mm bursting width)
Resistant to:	all acids and lyes normally found in the ground

Drying time*:

20 °C / 70 % rel. humidity:	approx. 24 hours
Requirements of DIN 18195, part 2:	fulfilled
Layer thickness:	1 mm fresh layer = 0.6 mm thick dry layer

* Depending on weather conditions and the thickness of the fresh layer, drying may be faster or slower.

Substrate

The substrate must be clean and sound as well as free of oil, grease and release agents. Matt damp surfaces are permissible. The substrate must be solidly filled and plane. Remove projecting seams and the remains of mortar. Break or slope off corners and edges, particularly on floor slabs and cantilevered slabs. Fill in all missing areas and indentations such as holes, joints, cracks, masonry stone with profiled surfaces cementitiously without seams, e.g. with Remmers Waterproofing Filler.

Waterproofing new buildings

Sealing cove:

Apply a bonding layer consisting of Kiesol diluted 1 : 1 with water and Remmers Waterproofing Grout to the cleaned sealing cove area and, wet-on-wet, place the sealing cove (radius 3-5 cm) made of Remmers Waterproofing Filler.

Priming:

To protect against moisture penetration from behind, silicification treatment consisting of Kiesol di-

luted 1 : 1 in water and Remmers Waterproofing Grout is applied from 10 cm below the upper edge of the slab to 5 cm above the second horizontal joint (but at least 20 cm high). If the building has already been protected from moisture penetration from behind, this working step can be left out.

The surfaces to be treated should be thoroughly cleaned and all missing areas repaired with, e.g. Remmers Waterproofing Filler. Apply a thin layer of the Remmers Spray-On Waterproofing 2K Rapid bitumen component with a brush or suitable spraying equipment, covering the entire surface. On dry substrates, thin the emulsion 1 : 1 with water and apply by hand. Any pools that have formed in the sealing cove area must be taken up before coating.

Vertical surfaces:

Remmers Spray-On Waterproofing 2K Rapid is sprayed onto the air dry primer in the required layer thickness in two directions.

The minimum application rate for the specific load should be applied, checked while still fresh and documented. To ensure thorough

drying in the sealing cove area, make sure that only the prescribed layer thickness is applied.

Horizontal surface waterproofing:

When waterproofing against ground damp and non-standing seepage water, the floor slab should be primed as described above for priming on vertical surfaces with Remmers Spray-On Waterproofing 2K Rapid (no pools). After the primer has been absorbed, Remmers Spray-On Waterproofing 2K Rapid is applied in a single, uniform layer. After the waterproofing has thoroughly dried, two layers of a protective parting plane (polyethylene sheets) are laid before the screed is placed. In case of standing seepage water or water pressure, the waterproofing is placed on the sub-layer of concrete (at least B 25) beneath the floor slab. A silicification treatment should be applied as a primer in this case.

Remmers Spray-On Waterproofing 2K Rapid is not suitable for waterproofing beneath elevated piles.

Pipes passing through walls

In case of ground damp and non-standing seepage water (DIN 18195, part 4), pipes passing through walls should be waterproofed flexibly with Remmers Spray-On Waterproofing 2K Rapid from all sides in a max. 10 mm thick layer. Roughen plastic pipes with sandpaper. Clean metal pipes and sand if necessary, then prime with Remmers Ilack ST and blind with sand. After the solvents have flashed-off, waterproof as described above.

In cases of moisture (DIN 18195, part 5), adhesive flange or loose/fixed flange should be integrated into the waterproofing. A loose/fixed flange construction is used for standing seepage water (DIN 18195, part 6).

Remmers Pipe Flange can be used in all of these cases.

Protection/drainage layer

The waterproofing must be protected from mechanical damage

and UV radiation. To protect the waterproofing system, we recommend our Remmers DS System Protection, Art. No. 0832 which fulfils the requirements for filling protection in DIN 18195, part 10 and the German guideline for thick coatings. This system is also the vertical part of a drainage layer according to DIN 4095. Materials that would exert a point or line load on the waterproofing may not be used.

Notes:

Ambient temperature and the temperature of the substrate must be **at least + 5 °C**. The waterproofing is sensitive to frost in the fresh state. DIN 18195 edition 08-2000 as well as the latest guideline for thick coatings and the latest Technical Information Sheets for the products that belong to the system should be observed.

Directions

Waterproofing: Remmers Spray-On Waterproofing 2K Rapid can only be applied with 2-component spraying equipment made by the firm Dittmann. The two components are mixed by crossing the two sprayed jets of each component.

Tools, cleaning

Special 2-component spraying equipment, brush, roller. Clean tools with water while the material is still fresh. After the

product has reacted, it can be removed with V 100.

Packaging, application rate, shelf-life

Packaging:

Bitumen emulsion: 30 kg, 1000 kg container
Reaction component: 33 kg (3 x 33 kg are sufficient for 1000 kg bitumen emulsion)

Application rate:

Per silicification treatment:
0.2 kg/m² Aida Kiesol + 1.5 kg/m² Remmers Waterproofing Grout

Sealing cove:

0.05 kg/m Remmers Kiesol
0.2 kg/m Remmers Waterproofing Grout
2.0 kg/m Remmers Waterproofing Filler

Priming:

0.20 kg/m² Remmers Spray-On Waterproofing 2K Rapid bitumen component

Coating:

Ground damp and non-standing seepage water: 5.5 kg/m² Remmers Spray-On Waterproofing 2K Rapid

Moisture: 5.5 kg/m² Remmers Spray-On Waterproofing 2K Rapid

Standing seepage water: 6.8 kg/m² Remmers Spray-On Waterproofing 2K Rapid

Adhesive for perimeter insulation: approx. 1.5 kg/m² Remmers K2 Thick Coating

Shelf-life:

At least 6 months stored dry, frost-free and protected from heat.

Safety, ecology, disposal

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

Personal protective equipment is required when a spraying procedure is used. Respiratory equipment with particle filter P 2 (made by e.g. Dräger). Suitable protective gloves – see Safety Data Sheet. Keep work clothes closed.

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.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

1902-TI-09.07



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