



## Technical Information Sheet Article No. 0824

# Protective Coating

Bitumen emulsion used as a protective coating and as an additive for bitumen modified mortars

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### Range of use

Protective Coating is used for protection against the effects of ground damp and aggressive substances normally found in the ground. Suitable substrates are concrete, masonry work, iron, fibrated cement, insulation sheets (also e.g. insulating material not resistant to solvents such as polystyrene, etc). When used as an additive for cement mortars, render and render-mortar binders and hydraulic lime mortars (render, screed and masonry mortar), it has the best possible protective effect against water that is aggressive towards concrete and it also improves water impermeability.

### Property profile

Remmers Protective Coating is a stable, thick liquid, bitumen emulsion according to AIB – Building Material No. 4683.02 – with approx. 60% binder content. Solvent-free – environmentally correct. Resistant according to DIN 4030 up to a degree of "very strong attack". Remmers Protective Coating is a cement-compatible additive for mortars. The added bitumen and deposits of bitumen in air pores reduce capillary transport of moisture and the precipitation of condensation. It reduces compressive strength which improves the flexural/tensile strength to compressive strength ratio and

### Characteristic data of the product

Base:	Bitumen emulsion, anionic, solvent-free
Consistency:	thick liquid
Binder content:	approx. 60% by weight
Specifications:	
Density:	1.0 g/cm <sup>3</sup> ± 0.02
Viscosity:	9 sec ± 2 (DIN 6)
pH value:	9.5 ± 0.5

therefore reduces susceptibility to cracks caused by tension.

### Directions

The substrate must be clean, free of oil or grease (e.g. the remains of release agents) and loose material. Remove rust from iron. Work can be carried out on dry as well as damp substrates. Grout masonry work in ground areas with e.g. Remmers Waterproofing Grout in the Remmers Kiesol System or apply render. Priming of cementitious substrates with Kiesol is recommended. The material is applied with a brush, roller or spraying equipment after it has been stirred thoroughly. If dry, highly absorbent substrates should be primed with Remmers Protective Coating which has been diluted with up to 50% water. Normally, one coat of primer and at least 3 coats of Remmers Protective Coating are applied (according to the standard, an application rate of at least 1.1 kg/m<sup>2</sup> solid content is prescribed) which corresponds to approx.

2 kg/m<sup>2</sup> Remmers Protective Coating.

When used as an additive for mortar, stir the contents of the container thoroughly until homogeneous before using. Remmers Protective Coating is then mixed with the mixing water.

Render and joint mortar = 1 part by weight Remmers Protective Coating and 2 parts by weight water

Screed and masonry mortar = 1 part by weight Remmers Protective Coating and 3 parts by weight water.

Protect mortars and screeds while setting from drying out too quickly as a result of sunshine, drafts and similar effects.

The surfaces to be treated must be sound, clean and slightly damp but should not show any pressing moisture.

**Working temperature when using Remmers Protective Coating should not fall below +5° C (object**

temperature) and there should be no night frost before it has completely dried!

### Drying

Drying depends on humidity and ambient temperature as well as porosity and moisture content of the substrate and is approx. one hour for each coat, however, lower temperatures and moisture can increase drying time to more than one day. Subsequent coats should only be applied when the previous coat has completely dried.

### Tools, cleaning

Brush, roller, suitable spraying equipment. In the fresh state, Remmers Protective Coating can be removed from tools with water. Hardened material can be removed with V101.

### Packaging, application rate, shelf-life

#### Packaging:

5 kg, 10 kg and 25 kg tin containers

#### Application rate:

Coating:

approx. 250 g/m<sup>2</sup> per coat (see Directions for the total amount)

Render mortar:

approx. 1 kg/m<sup>2</sup> (approx. 50 kg/m<sup>2</sup>)

Screed:

approx. 1.5 kg/m<sup>2</sup> (approx. 40 kg/m<sup>2</sup>)

#### Shelf-life:

At least 12 months in unopened, original containers stored frost-free. Protect from frost and the effects of strong heat. Opened containers should be closed immediately after use and the contents used as soon as possible.

### Job safety

Protective Coating is a preparation as defined by regulations on hazardous materials and does not require labelling.

Details on handling and transport are found in the latest Safety Data Sheet.

### 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.

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.



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