

Solvent free, fibre reinforced, crack bridging, two component thick bitumen- rubber coating for reliable waterproofing of building structures

With general building authority test certificate



Characteristics

IMBERAL® 2K 20B is a highly polymer modified, fibre reinforced thick layer waterproofing sealant on a bitumen emulsion basis with hydraulic setting powder. It is resistant to the usual aggressive substances occurring in the ground and is not harmful to ground water.

- Easy to apply
- Quickly rainproof
- Radon proof
- Quick hardening
- Crack bridging
- Can be used vertically and horizontally

Use

IMBERAL® 2K 20B is for sealing building structures in direct contact with the ground moisture and non-accumulating seepage water, water not under pressure (on floors/wet areas), on vertical and horizontal exterior and interior surfaces. For sealing wall interfaces on water impervious concrete floor tiles and construction and butt joints of concrete building parts with high water penetration resistance.

Suitable for forming coves.

Can also be used as an adhesive for insulating and protection panels and drain tiles.

Can be used on unrendered brickwork, concrete and plaster as well as on cleaned old bitumen sealants.

Applications:

- Cellars in residential and industrial buildings
- Underground garages, parking decks
- Balconies, patios
- Wet rooms, showers
- Retaining walls

Specifications

Packaging	PE bucket/paper sack
Mixer pack size	30 kg
Liquid component	22.5 kg
Powder	7.5 kg
Supplied	16 Pack sizes/pal.
Density, process ready	1.10 kg/l
Working temperature	+5°C to +35°C
Working time	> 2 hours
Softening point (ring and ball)	120°C
Elongation	approx. 100%
Max. tensile strength	approx. 0.33 N/mm ²
Crack bridging	
-without fabric insert	> 2 mm at +4°C
Imperviousness	
-Test acc. DIN 1048	> 0.75 bar
Fully hardened and load bearing after 24 hrs	
Storage	frost free and cool, 12 months

Min. quantity req. acc. to DIN 18195

Scratch coat 1 – 2 kg/m²

DIN 18195 Part 4
Ground moisture and non-accumulating seepage water 6 kg/m²

DIN 18195 Part 5
Water not under pressure (on floors/wet areas) 6 kg/m²

DIN 18195 Part 6
Accumulating seepage water²⁾ 4.9 kg/m²
Water under pressure²⁾ 4.9 kg/m²
Coves 1 kg/linear metre

- Site conditions may require the quantities used to be increased by 1 -1.5 kg/ m² (caused by uneven substrate or material applied). Levelling and scratch coats should be considered separately
- Waterproofing measures against water under pressure do not comply with DIN 18195 and must be agreed with the client contractually before waterproofing work starts.

¹⁾ At +20°C and 60% relative humidity

²⁾ As a rule a reinforcement fabric will be embedded in the whole area.

Preparation of the surface

The substrates must be firm, sound, free from dust, dirt and mortar residue.

Spray or brush on **IMBERAL® 2K 20B Aquarol 10D** as a primer on all absorbent, mineral substrates. Amount required approx. 0.2 kg/m².

The substrate can be slightly damp. No water must enter between the substrate and the sealant during the construction phase. If necessary use **INTRASIT® DS2 54Z**, **INTRASIT® Poly-C1 54Z/-C2 55Z**, or **INTRASIT® RSB 55Z** as an intermediate sealant. Clean floor slab projections. Remove sintered layers and contaminants. Before starting the waterproofing work, apply **IMBERAL® 2K 20B**, **INTRASIT® SM 54Z** or quick setting **INTRASIT® RSB 55Z** universal filler to coves. Use a trowel.

Old, firmly adhered bituminous coatings and sealants can be over coated after cleaning thoroughly.

Close open joints of up to 5 mm with **IMBERAL® 2K 20B** applied as a scratch coat or close up with a thin layer of plaster.

Seal mortar pockets, holes and joints over 5 mm with mortar (**IMBERAL® 2K 20B**).

To prevent or reduce the formation of bubbles and air voids because of deep pores or holes in the concrete apply a scratch coating.

Scratch coats and coves must be hardening before waterproofing work starts.

Application

DIN 18195 – Waterproofing of buildings

DIN 1053 – Masonry

Observe guidelines for planning and designing structures in direct contact with the ground with polymer modified thick bitumen coating.

1. **Stir IMBERAL® 2K 20B** with slow running paddle (400 to 600 rpm) with a mixing paddle. Briefly mix up liquid component, then add all the powder component at once and stir thoroughly into the liquid component. Mixing takes about a minute and is complete when the mixture is homogenous and free of lumps.
2. Apply using a smoothing trowel or a **PP99 peristaltic pump**
3. Insert **IMBERAL® FB 89ZH** with **IMBERAL® 2K 20B** into existing expansion joints
4. Clean tools with water immediately after use.

If sealing horizontally, up to 3% water can be added so that the material is easier to work, e.g. with a rubber blade. Apply vertical wall sealing right through to the foundation side surfaces and about 30 cm above ground level (splashproofing). If this area is plastered, then the perimeter strip can be sealed with a **INTRASIT® DS2 54Z**, **INTRASIT® Poly-C1 54Z/-C2 55Z**, or **INTRASIT® RSB 55Z** sealing slurry beforehand. In the case of clinker brickwork, the sealant should be extended over the brick layer, to prevent water penetrating during the building phase.

As a rule two layers should be applied for waterproofing. Waterproofing can be done wet on wet if working according to DIN Part 4 and 5.

If waterproofing according to Part 6, the first layer must be allowed to dry sufficiently first.

Coves should be provided in all inner corners.

Outer edges of the building structure must be bevelled.

Cover settlement joints in a loop shape **IMBERAL® FB 89ZH**. Fix **IMBERAL® 2K 20B** to the edges and embed in the surface sealing.

Precautions

Drains complying with DIN 4095 are permitted before sealing.

Water from the cellar floor slab or water that has collected on the intermediate floors and from drainpipes not yet connected must be prevented from running behind the sealing layer. No cohesive soils (loamy) should come into contact with the sealant. The sealant should be protected from damage (protective coating/ wear layer according to DIN 4095).

Slip layer laminated drain sheet **IMBERAL® Multidrain 89V** can be used for protection and drain layers.

Drain or thermal insulation tiles can be fixed on to the hardened sealant with **IMBERAL® 2K 20B** or a soft bitumen paste such as **IMBERAL® BEP-F 20B**.

Corrugated or bobbled tiles are not suitable.

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IMBERAL® Aquarol 10D
IMBERAL® BEP-F 20B
INTRASIT® DS1 54Z
INTRASIT® DS2 54Z
INTRASIT® Poly-C1 54Z
INTRASIT® Poly-C2 55Z
INTRASIT® SM 54Z
INTRASIT® RZ1 55HSP
IMBERAL® FAB 89ZH
IMBERAL® VE 89V
IMBERAL® Multidrain 89V
IMBERAL® RSB 55Z

Important notes

- Maintain a working temperature of +5°C to +35°C
- Do not apply the product in direct sunlight
- Openings through the sealant should, where possible, be in the area of ground moisture, non-accumulating seepage water (observe DIN 18195 Part 9)
- Use adhesive flanges or loose/fixed flanges for passages where there is water not under pressure. Openings in accumulating seepage water or ground moisture areas must always be made with loose/fixed flange screw connections.
- Gullies must be reinforced with plate edging or sheeting, integrating a woven tape.
- Apply protective layers and protective measures according to DIN 18195 Part 10.
- Any deviations from DIN 18195 must, as a rule, be contractually agreed separately.

Ingredients

Bitumen, polymers, emulsifiers, functional fillers, fibres, hydraulic binders.

Safety provisions/recommendations

Powder components have an alkali reaction with water. Observe the usual precautions for handling chemical products.
Wear suitable protective clothing.

Disposal

The local waste removal regulations must be observed.

Manufacturer

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This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply.
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