

Reactive, flexible, rapid waterproofing of buildings

With general appraisal certificate

Characteristics

IMBERAL® RSB 55Z is a 2-component, cold-flexible, ultra-high pressure-stable, crack-bridging waterproofing for buildings. Mixing the two components produces an easy-to-process putty with a controlled hardening process.

- Solvent-free and environmentally-friendly
- Aging- and UV-resistant
- Flexible
- High pressure loading capacity
- Rain resistant after 2 hours
- Resistant to pressurized water after 16 h
- Quickly workable/paintable
- Radon proof
- Can be plastered over

Use

IMBERAL® RSB 55Z is used for waterproofing applications in building construction and civil engineering on all load bearing substrates. It is particularly suitable for wall cross-section dampproofing, and dampproofing brick contact areas, balconies, terraces as well as cellar dampproofing in line with DIN 18533 W1-E and W4-E.

As dampproofing for the wall/floor connection area, as dampproofing underneath tile supports as well as for renovating old bitumen coatings. For building sites operating to tight deadlines.

Sealing level thresholds, doors and window elements in connection with **IMBERAL DB 89ZH** acc. FPD guideline.

Areas of application:

- Concrete, plaster, masonry
- Damp rooms and washrooms, showers, etc.
- Balconies, terraces, access walkways
- Sealing concrete surfaces that are in contact with the soil
- Brick contact areas
- Floor plate sealing
- Sealing in the composite wall insulation system
- As a component sealant under tiles and slabs
- As a carbonation brake on concrete
- Wall cross-section dampproofing

Specifications

Packaging	Combination barrels
Liquid component	10 kg PE bucket
Powder	15 kg paper bag
Delivery form	18 barrels/pallet
Density, ready for processing	1.5 kg/l
Colour shade	red
Application temperature	+5 °C to +25 °C
Processing time	approx. 45 minutes
Cold cracking (25 mm mandrel)	< 0 °C
Elongation at rupture	approx. 80%
Max. tensile strength	approx. 2.20 N/mm ²
Water vapour diffusion resistance factor μ	≥ 7857
Water vapour diffusion equivalent air layer thickness sd	$\geq 15,7$ m
Pressure loading capacity	> 1 MN/m ²
Imperviousness	3 bar / 28 days
Rain resistant ¹⁾	approx. 2 hours
Capable of being loaded, primed ¹⁾	approx. 16 hours
Storage	frost-free, dry, 12 months

Quantity required

As per MDS guidelines

Spray water/wall plinth	ca. 3,2 kg/m ²
Wall cross-sectional sealing	ca. 3,2 kg/m ²
Clinker contact areas	ca. 3,2 kg/m ²
Sealing against soil moisture	ca. 3,2 kg/m ²
Sealing against pressing water	ca. 4,5 kg/m ²
Building waterproofing as per DIN 18533 W1-E and W4-E	ca. 3,2 kg/m ²

- Based on the construction site, the quantities listed here can increase by 1 - 1.5 kg/m² (due to the uneven ground or the application of the material). Equalization and scratch coats must be considered separately.

¹⁾ At +20 °C and 60% relative atmospheric humidity.

Preparation of the surface

The substrates must be firm, capable of bearing load, free of adhesion-inhibiting ingredients.

Apply **IMBERAL® Aquarol 10D** as a primer on absorbent mineral substrates. Once cleaned, old and adherent bitumen coatings can be covered without further priming.

For example, the following substrates are suitable for the application of sealant:

Masonry as per DIN 1053, for example, made of:

- bricks
- hollow blocks and solid bricks/blocks made of Lightweight concrete and concrete, granulated slag bricks
- lime-sand bricks, aerated concrete blocks
- concrete shuttering blocks, mixed brickwork
- concrete/reinforced concrete as per EN 206-1 in conjunction with DIN 1045-2
- plaster (DIN V 18550) mortar group P III, CS III, CS IV acc. to DIN EN 998-1

Existing bituminous paints and coatings on a mineral substrate, as well as on existing, old mineral sealing compounds.

- cement screed
- old fixed tiled coverings

Other substrates not listed above must be checked to ensure their suitability for each area of application. The masonry must cover the entire surface. Holes are filled with **INTRASIT® RZ1 55HSP**. Coves are also formed using **INTRASIT® RZ1 55HSP**.

In the case of masonry, DIN 1053 stipulates that butt joints exceeding 5 mm in width, for example for bricks not laid with the butt ends facing each other, must be sealed on the outside with mortar when the bricks are laid. Open recesses greater than 5 mm, such as mortar pockets or holes, must be filled in advance with **INTRASIT® SM 54Z/ INTRASIT® RZ1 55HSP**. Coves are likewise formed using **INTRASIT® SM 55Z/ INTRASIT® RZ1 55HSP**. Open butt joints measuring up to 5 mm and surface profiles or unevenness of blocks (for example, plaster grooves for bricks or heaving concrete blocks) must also be evened.

Preparation of the surface

For masonry consisting of porous aggregate lightweight or concrete bricks, special measures are required to seal the pores (e.g. scratch coating with **IMBERAL® RSB 55Z**). The scratch coat must be allowed to dry/harden for approximately 2 hours before the next work phase commences. Concrete must also be checked. Imperfections and ridges that may have been caused by the form work when the concrete was poured must be eliminated in the same way as for masonry. Separating substances such as mould oil or curing agents must be removed. When exposed to solar radiation, pores that are open or covered can lead to the formation of blisters in the freshly applied coating. To reduce the risk of blister formation, a scratch coat should be applied. The scratch coat must be allowed to dry/harden before the next work phase commences. Layers of cement paste or firmly adhering dirt must be removed mechanically (e.g. rotating discs/milling machines). The edge of the concrete floor slab must be beveled. Before applying the sealant, the prepared concrete floor slab (floor slab protrusion) must be thoroughly cleaned. Hollow plastering around the cavities must be removed and replaced accordingly. Sandy plaster must be firmed up or removed and replaced where necessary. Existing waterproofing is only suitable as a substrate for **IMBERAL® RSB 55Z** if the material compatibility can be ensured. In case of doubt, material compatibility must be verified by applying a test coat/bond. Furthermore, the existing waterproofing must be checked to ensure adequate adhesion to the substrate. Loose parts must be removed. Following the application of a scratch coat, the product can be applied directly to the old substrate. Priming is not required. In general, tar coatings and tar sheets are not suitable substrates for sealants. A coating thickness > 2 mm is required as a sealing layer for balconies and terraced areas that are subsequently covered with floor tiles resting on tile supports or with a combination of natural stone and spatula-applied coverings. We recommend embedding fabric wadding (**IMBERAL® VE 89V**) into the first layer. A minimum thickness of 2 mm is required as a sealing layer around brick contact areas.

Application

The “Guideline for Planning and Executing Waterproofing using Flexible Waterproofing Grouts“ must be adhered to.

1. Pour the **IMBERAL® RSB 55Z** liquid components and add the powder while mixing. Using a low-speed mixing tool (400-600 rpm), mix the components homogeneously. The mixing duration is at least 2 minutes.
2. **IMBERAL® RSB 55Z** can be applied by brush, trowel, or by spraying. Make sure that the sealing compound is applied evenly. The viscosity of the material can be adjusted with up to 0.5 l of water. This is especially suitable for slurry coatings with a thickness of 2 - 3 mm.
3. The maximum coat thickness per work phase is 8 mm.
4. Depending on the particular application, the material application must be applied in one or two work phases. In areas subjected to particularly high stresses, a reinforcing core must also be integrated. See the “Quantity required“ section.
5. Allow a drying time of at least 2 hours between coats depending on the weathering conditions. The first layer must not be damaged by the application of the second layer.
6. Wash all processing equipment with clean water immediately after use.

Precautions

Protect against mechanical stress until the product has hardened sufficiently.

Apply protective coats according to DIN 18533.

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IMBERAL® Aquarol 10D
IMBERAL® VE 89V
INTRASIT® SM 55Z
INTRASIT® RZ1 55HSP

Important notes

- Observe the working temperature of +5 °C to +25 °C.
- If the product is applied in direct sunlight, at elevated temperatures and windy weather, early skin formation must be expected.
- Only use on dry or mat moist substrates.
- Rough trowel marks in the surface are to be avoided.
- The instructions in DIN 18533 apply in this case.
- If using **HADALAN® MST 89M** as a decorative lining on substrates where there is a risk of crack formation, **HADALAN® DS61 13P** must be used as waterproofing.
- For level sleepers, doors and window elements with increased crack width changes > RÜ3-E, we recommend the use of **IMBERAL® DAB 30P**.
- If there is a risk of moisture on the back, carry out back moisture protection from **INTRASIT® RZ1 55HSP** or **INTRASIT® DS1 54Z**

Ingredients

Liquid components: polymer dispersion, additives

Powder: special cements, mineral aggregates, auxiliary materials, pigments

Safety provisions/recommendations

The powder component produces an alkaline reaction when it comes into contact with water. For detailed information regarding safety during transport, storage and handling, refer to the updated safety data sheet.

Disposal

The local waste removal regulations must be observed.

Manufacturer

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