

IMBERAL® RSB 55Z

Reactive, fast building waterproofing, flexible



These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application and processing.

PRODUCT INFORMATION

Description

IMBERAL® RSB 55Z is a 2-component, cold-flexible, highly pressure-resistant, crack-bridging building sealant. Mixing the two components produces an easy-to-apply filler with controlled setting.

Application

- for waterproofing in building construction and civil engineering on all load-bearing substrates, in particular for wall cross-section waterproofing, waterproofing of clinker contact surfaces, balconies, terraces and as basement waterproofing with load cases W1-E and W4-E in accordance with DIN 18553-3
- as waterproofing of the wall/base connection area, as waterproofing under pedestal bearings and for the renovation of old bitumen waterproofing
- for construction sites under deadline pressure
- for sealing leveled door thresholds, doors and window elements in conjunction with IMBERAL DB 89ZH in accordance with FPD guidelines

Operational area

- Concrete, plaster, masonry
- Damp and wet rooms
- Balconies, terraces, arcades
- Waterproofing of concrete surfaces in areas in contact with the ground
- Clinker contact surfaces
- Floor slab waterproofing
- Waterproofing in the ETICS system
- Component sealing under tiles and slabs
- Carbonation brake on concrete (to protect the foundation)
- Wall cross-section sealing

Properties

- solvent-free and environmentally friendly
- resistant to ageing and UV radiation
- flexible
- high pressure resistance
- rainproof after approx. 2 hours
- resistant to pressurized water after 16 hours
- quickly recoatable/paintable
- radon-proof
- can be plastered over

Technical Data

Available container sizes	25 kg/combination container
Mixing ratio	1 (component A / liquid) : 1.5 (component B / powder)
Density, ready to use	approx. 1.5 kg/l
Processing temperature	+5°C to + 25°C
Processing time	approx. 45 minutes
Rain resistance	after approx. 2 hours ¹⁾
Resilience	Can be filled after approx. 16 hours ¹⁾
Elongation at break	approx. 80 %
Tensile strength	approx. 2.2 N/mm ²
Compressive strength	> 1 MN/m ²
Impermeability	3 bar / 28 days
Water vapour diffusion resistance μ	7857
Diffusion-equivalent air layer thickness ($s_{d-value}$)	15,7 m
Storage	frost-free, dry, 12 months
¹⁾ At +20 °C and 60 % relative humidity	

SUBSTRATE

Suitable substrates

- Masonry according to DIN EN 1996 such as B. from bricks, hollow blocks and solid blocks / blocks made of lightweight concrete and concrete, smelting blocks, sand-lime blocks, aerated concrete blocks, formwork blocks made of concrete, mixed masonry
- Concrete / reinforced concrete according to EN 206-1 combined with DIN 1045-2
- Plasters in category CS III or CS IV according to DIN EN 998-1
- Existing paints and coatings based on bitumen on mineral substrates as well as on existing old, mineral waterproofing slurries
- Cement screeds
- Old, tightly adhering tile coverings

Properties/tests

- The substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.



Preparation

- Apply IMBERAL Aquarol 10D as a primer to absorbent, mineral substrates. Old, firmly adhering bitumen waterproofing can be reworked after cleaning without further priming. The masonry must be fully sealed. Fill any gaps with INTRASIT RZ1 55HSP. Also form coverings with INTRASIT RZ1 55HSP. For masonry according to DIN 1053, butt joints wider than 5 mm must be sealed with mortar on the outside during masonry work, e.g. for bricks that are not “crushed” laid. Unsealed cavities larger than 5 mm, such as mortar pockets or break-outs, must be sealed in advance with INTRASIT SM 54Z/ INTRASIT RZ1 55HSP. Fillets are also created with INTRASIT SM 54Z/ INTRASIT RZ1 55HSP. Open butt joints up to 5 mm and surface profiling or unevenness of stones (e.g. plaster grooves in bricks or heavy concrete blocks) must also be leveled.
- Special measures are required to close the pores (e.g. scratch coat with IMBERAL RSB 55Z) for masonry made of light-weight or concrete blocks with large pores. The filler must be dried/set for approx. 2 hours before the next work step. Concrete must also be checked. Any imperfections and formwork ridges created during concreting must be removed as with masonry. Separating substances such as formwork oil or curing agents must be removed. Pores, whether open or concealed, can lead to the formation of blisters in the fresh coating, e.g. when exposed to sunlight. To reduce the risk of blistering, a scratch coat should be applied. The scratch coat must be dried/set before the next work step. Layers of cement paste or stubborn dirt must be removed mechanically (e.g. rotating disks/milling). The edge of the concrete base must be chamfered. Before applying the waterproofing, the prepared concrete base (base overhang) must be thoroughly cleaned. Hollow plaster must be removed in the area of the hollow areas and supplemented accordingly. Sanding plaster must be consolidated or removed and replaced if necessary. Existing waterproofing is only suitable as a substrate for IMBERAL RSB 55Z if the material is compatible with the existing waterproofing. In case of doubt, the material compatibility must be verified by means of a test filling/bonding. Furthermore, the existing sealant must be checked for sufficient adhesion to the substrate. Loose parts must be removed. Application can be carried out directly onto the old substrate after scraping. Priming is not necessary. Tar coatings and tar membranes are generally not suitable as a substrate for waterproofing. A layer thickness of > 2 mm is required as a waterproofing layer on balconies and terraces that are subsequently covered with floor slabs on still bearings or under natural stone trowel coverings in a bond. It is recommended to embed a fabric insert (IMBERAL VE 89V) in the first layer. A minimum layer thickness of 2 mm is required as a waterproofing layer in the area of clinker support surfaces.

AREAS OF APPLICATION AND PROCESSING

Applying

- Introduce the liquid component and add the powder while stirring. Mix homogeneously with a slow-running stirring tool (400-600 rpm). The mixing time is at least 2 minutes.
- IMBERAL RSB 55Z can be applied by brush, trowel or spraying. Ensure that the waterproofing compound is applied evenly. The material viscosity can be adjusted with up to 0.5 l of water. This is particularly suitable for slurry applications in 2 – 3 mm layer thickness.
- The maximum layer thickness per application is 8 mm.
- Depending on the application, the material must be applied in one or two coats. In areas subject to particularly high loads, it is also necessary to incorporate a reinforcing insert.
- **Consumption according to MDS guideline:**
 approx. 3,2 kg/m² with splash water/wall plinth
 approx. 3,2 kg/m² as wall cross-section sealing
 approx. 3,2 kg/m² for clinker contact surfaces
 approx. 3,2 kg/m² as a seal against ground moisture
 approx. 4,5 kg/m² as a seal against pressing water
 approx. 3,2 kg/m² as waterproofing for buildings in accordance with DIN 18533 W1-E and W4-E
- Allow a drying time of at least 2 hours between coats, depending on the weather conditions. The first coat must not be damaged by the application of the second coat.

Drying / Follow-up work

- Protect from mechanical stress until sufficiently cured. Provide protective layers in accordance with DIN 18533.

NOTES

Cleaning

- Clean all tools and equipment with water immediately after use.

System products

- IMBERAL® Aquarol 10D
- IMBERAL® VE 89V
- INTRASIT® SM 54Z
- INTRASIT® RZ1 55HSP



To be observed

- Maintain a processing temperature of +5 °C to +25 °C.
- Premature skin formation is to be expected in the event of sunlight, increased temperature and wind movement. Shading precautions are recommended.
- Only use on dry or matt damp substrates.
- Coarse trowel marks in the surface and material accumulations must be avoided.
- The instructions of DIN 18533 apply.
- When using HADALAN MST 89M as a decorative coating, HADALAN DS91 13P must be used as a sealant on substrates at risk of cracking.
- For level thresholds, 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 penetration from the rear, use INTRASIT RZ1 55HSP or INTRASIT DS1 54Z for moisture protection.

Ingredients

- Liquid component: Polymer dispersion, additives
- Powder: special cements, mineral aggregates, additives, pigments

Occupational safety / Recommendation

- The powder component contains cement and reacts strongly alkaline with moisture / water. Therefore protect eyes and skin. In case of contact, always rinse with water. In the event of contact with the eyes, consult a doctor immediately. Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

Disposal

- Completely empty and recycle the packaging. Dispose of the material in accordance with the official regulations. Cured product residues can be found under the waste code in accordance with the Waste Catalog Ordinance 08 04 10 (waste adhesives and sealants with the exception of those mentioned in 08 04 09).

Producer

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The statements are made based on extensive tests and practical experiences. They cannot be applied to every application case. Therefore, we recommend carrying out application trials if necessary. Subject to technical changes in the course of further development. Furthermore, our General Terms and Conditions of Business apply.