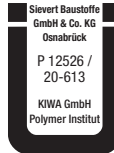


PROLASTIC® 55Z

Flexible, polymer-modified thick coating for building waterproofing



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

PRODUCT INFORMATION

Description

PROLASTIC® 55Z is a 2-component, bitumen-free thick coating for the highest demands. Easy, fast, flexible at low temperatures, highly crack-bridging (RÜ3-E) and universally applicable. Particularly suitable for the surface sealing of basements and plinths that are under time pressure.

Operational area

- Waterproofing of building components in contact with the ground in accordance with DIN 18533
- Renovation of old bitumen waterproofing
- Base sealing
- Sealing the wall-sole connection
- Strip sealing of structural joints
- Sealing of level thresholds, doors and window elements
- Base point sealing of the facing brick shell
- Floor slab waterproofing
- Horizontal sealing under wall contact surfaces
- Component sealing under tiles and slabs
- Bonding of insulation boards
- Sealing of tanks and basins in accordance with DIN 18535
- Carbonation brake on concrete (to protect the foundation)
- WTA internal waterproofing

Place of use

- indoors and outdoors
- vertical and horizontal

Properties

- flexible, polymer-modified thick coating (abP FPD)
- flexible mineral sealing slurry (abP MDS)
- joint sealing (abP joint and abP ÜBB)
- tested in accordance with DIN EN 15814 (PMBC)
- Radon protection
- WTA internal sealing
- Emission test GEV-EMICODE EC1^{Plus}
- Emission test French VOC regulation A+
- highly crack-bridging
- flexible at low temperatures
- UV-resistant
- extremely pressure-resistant
- frost and de-icing salt-resistant
- suitable for filling, brushing and spraying
- very low emission
- solvent-free
- bitumen-free
- can be plastered over
- paintable

Technical Data

Available container sizes	26 kg/combination container
Mixing ratio	1 : 1
Density, ready to use	approx. 0.98 kg/l
Processing temperature	+5°C to + 25°C
Processing time	approx. 30 minutes
Rain resistance	after approx. 2 hours ¹⁾
Revisability	after approx. 3 hours ¹⁾
Resilience	after approx. 16 hours ¹⁾
Crack bridging class	RÜ3-E
Elongation at break	approx. 80 %
Tensile strength	approx. 2.2 N/mm ²
Compressive strength	> 1 MN/m ²
Impermeability	3 bar / 28 days
Diffusion-equivalent air layer thickness (s _{d-value})	3,83 m
Water vapour diffusion resistance μ	2207
Storage	at least 12 months, frost-free, dry and originally sealed
Consumption	1.1 kg/m ² per mm layer thickness
¹⁾ At +20 °C and 60 % relative humidity	

SUBSTRATE



■ Suitable substrates

- Masonry in accordance with DIN EN 1996, e.g. made of bricks, hollow blocks and solid blocks made of lightweight concrete and concrete, slag bricks, sand-lime bricks, aerated concrete blocks, concrete shuttering blocks, mixed masonry
- Concrete / reinforced concrete in accordance with EN 206-1 in conjunction with DIN 1045-2
- Plasters of category CS III or CS IV according to DIN EN 998-1
- Existing bitumen-based paints and coatings
- Cement screeds
- Old, firmly adhering tile coverings

■ Properties/tests

- The substrate must be frost-free, surface-dry, load-bearing, clean and free from contamination and separating layers of any kind (e.g. paint coats, formwork oils).
- The surface of the substrate must be dry.
- Plasters must be hardened.
- Concrete must be at least 3 months old in accordance with DIN 18535 – Sealing of tanks and basins in solid construction.
- Substrates containing tar are not suitable and must be completely removed.

■ Substrate preparation

- Sintered layers or stubborn dirt must be removed mechanically (diamond grinding).
- On the surfaces to be sealed, external corners must be chamfered and internal corners must be provided with a sealing fillet or sealing tape (in accordance with the regulations).
- For masonry according to DIN 1053, butt joints wider than 5 mm must be sealed with mortar on the outside, e.g. for bricks that are not laid “crisply”.
- Depressions larger than 5 mm, such as mortar pockets or break-outs, must be filled in advance with INTRASIT® SM 54Z / INTRASIT® RZ1 55HSP.
- Special measures are required to close the pores in masonry made of lightweight or concrete blocks with porous structure (e.g. scratch coat with PROLASTIC® 55Z). The filler must be dried/set for approx. 2 hours before the next work step.
- Concrete needs to be checked as well. Existing defects and formwork ridges must be removed in the same way as for masonry.
- Pores, open or concealed, can lead to blistering in the fresh coating, e.g. when exposed to sunlight. To minimize the risk of blistering, a scratch coat of PROLASTIC® 55Z should be applied. The filler must be allowed to dry/set for approx. 2 hours before the next work step.
- Before applying PROLASTIC® 55Z, the surface to be sealed must be thoroughly cleaned (e.g. by vacuuming) and primed with IMBERAL Aquarol 10D.
- Clean existing bitumen-based paints and coatings (e.g. with a high-pressure cleaner) and apply a scratch coat of PROLASTIC® 55Z after drying.
- EPS and XPS panels must first be treated with a suitable reinforcement mortar and mesh in the plinth area.
- In transition areas between the structure and installation elements such as windows or doors, these must be roughly sanded and then HADALAN HV Uni 30DD is applied.

AREAS OF APPLICATION AND PROCESSING

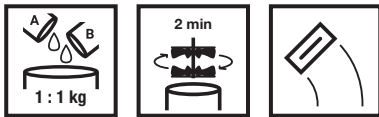
The product can be used in the following areas:

- Scratch coat
- Surface sealing (single or multi-layer) on buildings and in tanks and basins
- Sealing between the building and installation elements (such as windows or doors) in accordance with the FPD Directive
- WTA internal sealing
- Bonding of perimeter insulation boards

ATTENTION! Observe the respective processing instructions for each area of application!



PROCESSING // **Scraper**



These pictograms apply to processing as a **scratch trowel**.

Deviations are possible depending on the area of application and processing.

■ **Mixing ratio**

- 1 (comp. A / liquid) : 1 (comp. B / powder)

■ **Consumption**

Scratch coat

Consumption (kg/m ²)	Dry layer- thickness (mm)	Wet layer- thickness (mm)	Fabric	Wait for the first layer to dry
1,1	1,0	1,1	no	no

■ **Mixing**

1. Place Comp. A (liquid) in the mixing vessel and add Comp. B (powder).
2. Mix homogeneously with a suitable mixer (e.g. Collomix DLX mixer) for at least 2 minutes.

■ **Applying**

- Apply the compound to the prepared substrate using a suitable tool.

■ **Drying / Follow-up work**

- Reworking can be done after approx. 2 hours.

PROCESSING // Surface sealing (single or multi-layer) on buildings and in tanks and basins



These pictograms apply to application **as area waterproofing (single or multi-layer) on buildings and in tanks and basins**. Deviations are possible depending on the area of application and processing.

Mixing ratio

▪ 1 (comp. A / liquid) : 1 (comp. B / powder)

Consumption

Surface sealing FPD according to FPD-RL

	Consumption (kg/m ²)	Dry layer- thickness (mm)	Wet layer- thickness (mm)	Fabric	Wait for the first layer to dry
W1-E: Soil moisture and non-pressing water	3,3	3,0	3,3	no	no
W2-E: moderate impact of pressing water ≤ 3 m	4,4	4,0	4,4	yes	yes
W3-E: Non-pressing water on earth-covered ceilings	3,3	3,0	3,3	yes	yes
W4-E: Splash water at the wall base and capillary water in and under walls	2,2	2	2,2	no	no

Surface sealing MDS according to DIN 18533

	Consumption (kg/m ²)	Dry layer- thickness (mm)	Wet layer- thickness (mm)	Fabric	Wait for the first layer to dry
W1-E: Soil moisture and non-pressing water	2,2	2	2,2	no	no
W2-E: moderate impact of pressing water ≤ 3 m	—	—	—	—	—
W3-E: Non-pressing water on earth-covered ceilings	—	—	—	—	—
W4-E: Splash water at the wall base and capillary water in and under walls	2,2	2	2,2	no	no

Basins and tanks FPD according to FPD-RL

	Consumption (kg/m ²)	Dry layer- thickness (mm)	Wet layer- thickness (mm)	Fabric	Wait for the first layer to dry
W1-B: Water tank filling height ≤ 5 m, crack width ≤ 1.0 mm (R0-B to R3-B)	4,4	4,0	4,4	no	no
W2-B: Water tank filling height ≤ 10 m, crack width ≤ 1.0 mm (R0-B to R3-B)	4,4	4,0	4,4	no	no

Basin and tank MDS according to DIN 18535

	Consumption (kg/m ²)	Dry layer- thickness (mm)	Wet layer- thickness (mm)	Fabric	Wait for the first layer to dry
W1-B: Water tank filling height ≤ 5 m, crack width ≤ 0.2 mm (R0-B to R1-B)	2,2	2	2,2	no	no
W2-B: Water tank filling height ≤ 10 m, crack width ≤ 0.2 mm (R0-B to R1-B)	2,2	2	2,2	no	no

Board adhesive

	Consumption (kg/m ²)	Dry layer- thickness (mm)	Wet layer- thickness (mm)	Fabric	Wait for the first layer to dry
W1-E: spot bonding	approx. 2.5	—	—	no	no
W1-E: gluing over the entire surface	approx. 3.5	—	—	no	no
W2-E: gluing over the entire surface incl. butt bonding	approx. 4.4	—	—	no	no

Mixing

1. Place Comp. A (liquid) in the mixing vessel and add Comp. B (powder).
2. Mix homogeneously with a suitable mixer (e.g. Collomix DLX mixer) for at least 2 minutes.



■ **Applying**

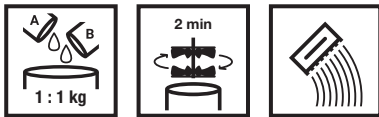
1. Processing is carried out in at least two layers.
2. Depending on the load case, the second layer can be applied either fresh-in-fresh or when the first waterproofing layer is no longer damaged when the second waterproofing layer is applied.
3. Apply the compound to the prepared substrate using a suitable tool (e.g. thickness trowel). Any grooves or unevenness must be closed or smoothed.
4. When using the reinforcement insert, it is embedded in the fresh first sealing layer.

■ **Drying / Follow-up work**

- The surface is rainproof after approx. 2 hours.
- The second waterproofing layer can be applied after approx. 3 hours.
- Protective panels can be bonded after approx. 3 hours.
- The waterproofing is loadable after approx. 16 hours.
- The seal must be protected from damage. After PROLASTIC® 55Z has dried completely, use the drainage and protection membrane IMBERAL® Multidrain 89V, for example. If protection is provided by suitable perimeter insulation boards, bonding is carried out using the point-bead method or over the entire surface, depending on the load.
- PROLASTIC 55Z can be plastered over after curing. Apply a suitable reinforcing mortar as a bonding agent, comb it horizontally using a 6-tooth trowel, and allow it to dry.
- PROLASTIC 55Z® can be painted directly after drying with standard emulsion, silicate or silicone resin paints.



PROCESSING // Bonding of perimeter insulation panels



These pictograms apply to the installation of **perimeter insulation panels**.
 Variations may occur depending on the application and installation method.

Mixing ratio

- 1 (Component A / liquid) : 1 (Component B / powder) : 1 (quartz sand 0.5–1.0 mm)

Consumption

Bonding of perimeter insulation boards

 Consumption
(kg/m²)

W1-E: spot bonding

approx. 2.5

W1-E: gluing over the entire surface

approx. 3.5

W2-E: gluing over the entire surface incl. butt bonding

approx. 4

Mixing

1. Place Comp. A (liquid) in the mixing vessel and add Comp. B (powder).
2. Mix homogeneously with a suitable mixer (e.g. Collomix DLX mixer) for at least 2 minutes.
3. Add quartz sand (0.5–1.0 mm) to the freshly mixed material in a 1:1 ratio (by weight).
4. Then mix the mixture thoroughly until it is completely homogeneous.

Applying

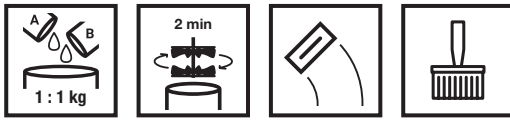
1. Depending on the insulation manufacturer's specifications, the adhesive should be applied either in spots or over the entire surface.
2. Apply the material evenly and install the insulation boards.

Drying / Follow-up work

1. The insulation boards must be positioned so that they have a stable, continuous contact surface at the bottom edge of the structural element.
2. Until the excavation pit is permanently backfilled, the installed insulation panels must be protected against any kind of shifting or slipping.
3. Backfill the excavation as soon as the insulation work is completed.
4. In the area above ground level, additional mechanical fastening of the insulation boards may be necessary. The insulation manufacturer's specific system-related instructions must also be followed.



PROCESSING // Sealing between the building and installation elements (such as windows or doors) in accordance with the FPD directive



These pictograms apply to application **as area waterproofing (single or multi-layer) on buildings and in tanks and basins**. Deviations are possible depending on the area of application and processing.

■ **Mixing ratio**

- 1 (comp. A / liquid) : 1 (comp. B / powder)

■ **Consumption**

- 1.1 kg/m² per mm layer thickness

■ **Mixing**

1. Place Comp. A (liquid) in the mixing vessel and add Comp. B (powder).
2. Mix homogeneously with a suitable mixer (e.g. Collomix DLX mixer) for at least 2 minutes.

■ **Applying**

1. Apply the compound to the prepared substrate using a suitable tool (e.g. trowel or brush), smoothing out any unevenness.
2. Insert the sealing tape **IMBERAL® DB-PV 89ZH** without creases and press down over the entire surface.
3. Apply the second layer of **PROLASTIC® 55Z** and completely rework the sealing tape.

■ **Drying / Follow-up work**

- Recoating with **PROLASTIC® 55Z** for integration into the surface waterproofing can be carried out fresh-in-fresh or after drying..
- The surface is rainproof after approx. 2 hours.
- The waterproofing is loadable after approx. 16 hours.



PROCESSING // **PROLASTIC® 55Z WTA internal sealing**

■ **System products**

- INTRASIT® VK 10A
- INTRASIT® DS1 54Z
- PROLASTIC® 55Z

■ **Processing**

- PROLASTIC® 55Z WTA internal waterproofing is manufactured and installed in accordance with the WTA data sheet.
- The system products are applied in accordance with the relevant technical data sheets.
- PROLASTIC® 55Z is designed for use as a surface sealant.



NOTES

Cleaning

- Tools can be cleaned with water immediately after use.
- Clean all tools and equipment with water immediately after use.

System products

- **IMBERAL® Aquarol 10D**
- **INTRASIT® RZ1 55HSP**
- **INTRASIT® SM 54Z**
- **IMBERAL® DB-PV 89ZH**
- **IMBERAL® VE 89V**
- **IMBERAL® Multidrain 89V**
- **INTRASIT® Poly-C1 54Z**
- **HADALAN® HV Uni 30DD**
- **INTRASIT® VK 10A**
- **INTRASIT® DS1 54Z**

To be observed

- 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 rules of the respective processing guidelines must be observed.
- If there is a risk of moisture on the rear side, apply **INTRASIT® RZ1 55HSP** or **INTRASIT® DS1 54Z** to protect against moisture.
- When using and processing hahne system products, the relevant technical data sheets must be observed.
- Can be sprayed with peristaltic and screw pumps (e.g. BMP 6 / BMP 7).
- Component A (liquid) and component B (powder) are matched to each other for each batch. The compatibility of two components from different batches can therefore not be guaranteed and must be ruled out.
- Mixed, workable material from different batches can be processed on a continuous surface.
- Only use clay-free filling material to backfill the excavation pit, as post-compaction and swelling of cohesive soils can result in the risk of impermissible shear forces. Do not use rubble and building rubble to backfill the excavation pit. Point loads on the waterproofing must be avoided.

Ingredients

Liquid component: polymer dispersion, additives

Powder: special cements, mineral aggregates, additives, pigments

Storage

Store in the original, unopened packaging in dry, frost-free conditions.
Shelf life 12 months from date of manufacture.

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 case of eye contact, consult a doctor immediately. Observe further instructions in the safety data sheet.

Disposal

The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of in accordance with EWC code no. 08 01 11 (paint and varnish waste containing organic solvents or other hazardous substances).



■ **Producer**

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