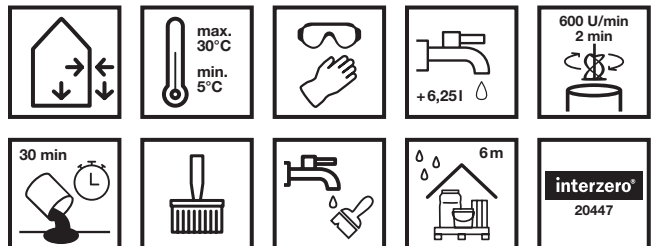


INTRASIT® DS1 54Z

Sealing slurry for waterproofing work, sulphate-resistant



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

PRODUCT INFORMATION

Description

INTRASIT® DS1 54Z is a cementitious, easy-to-use restoration slurry with high sulphate resistance. Waterproofing made of INTRASIT® DS1 54Z has high sealing and strength properties and therefore good resistance to mechanical loads and chemical attack, e.g. from de-icing salts, faeces and aggressive substances commonly found in the ground

Application

- for waterproofing building components in contact with the ground against ground moisture, non-pressing surface water, seepage and process water as well as containers up to 5 m WS
- for subsequent waterproofing and restoration of damp and salt-damaged substrates on the positive and negative side up to 15 m head of water in conjunction with INTRASIT VK 10A
- on vertical and horizontal exterior and interior surfaces as well as for substrates ready for coating and free of shrinkage

Operational area

- Damp rooms, bathrooms, showers
- Silos, sewage treatment plants, shafts
- Bases
- Concrete, screed, masonry
- Subsequent waterproofing indoors and outdoors
- Rear moisture protection and intermediate sealing against moisture acting from the rear in accordance with DIN 18533 in the area of the external basement waterproofing made of PMBC and FPD

Properties

- sulphate-resistant
- frost-resistant
- impermeable
- polymer-modified
- vapour-permeable

Technical Data

Available container sizes	25 kg/sack
Colour	grey
Fresh mortar bulk density	approx. 1.68 kg/l
Flexural strength after 28 days	approx. 6 N/mm ²
Compressive strength after 28 days	ca. 26 N/mm ²
Impermeability	1.5 bar / 28 days
Processing time	approx. 30 minutes
Rain resistance	after approx. 4 hours
Walkability	after approx. 8 hours
Revisability	after approx. 7 days
Water vapour diffusion resistance μ	approx. 100
Adhesive tensile strength	≥ 1.5 N/mm ²
Processing temperature	+2 °C to +30 °C
Storage	dry, 6 months
Consumption	approx. 1,5 kg/m ² per mm dry layer thickness approx. 3 kg/m ² in case of soil moisture approx. 4 kg/m ² in case of non-pressing water approx. 5 kg/m ² in case of water containers
¹⁾ At +20 °C and 60 % relative humidity	

SUBSTRATE

Properties/tests

- The substrates must be firm, level, load-bearing and free from frost, dust, dirt and plaster.

Preparation

- Thoroughly pre-wet absorbent substrates so that no water can be drawn out of the sealing slurry.
- The surfaces to be sealed must be free of cracks; if necessary, chisel out cracks and close them with cement mortar or inject them with injection resin.
- Repair defects, fill over gravel pockets. Re-point mortar joints in the masonry if necessary. In the case of irregular masonry with numerous projections and imperfections, apply INTRASIT SM 54Z leveling plaster.
- Break or chamfer all edges at 45° (chamfer width ≥ 3 cm). Round off all corners with a chamfer with a radius of at least 3 cm.
- Use in combination with INTRASIT VK 10A for critical wall and base waterproofing in exterior and interior areas, e.g. where there is moisture and/or salt on the back.

AREAS OF APPLICATION AND PROCESSING

Applying

- Slowly sprinkle dry mortar into clear water in a clean mixing vessel while stirring vigorously until a lump-free mass is formed.
- Recommended mixing ratio for painting and slurring: 1 RT water : 3 – 3.5 RT INTRASIT DS1 54Z or 1 GT water : 4 GT powder
- INTRASIT DS1 54Z can be mixed with INTRASIT Rasant 55Z to accelerate setting in the case of substrates exposed to high levels of moisture. Recommended mixing ratio: 3 : 1 to 1 : 1 GT.
- Apply the slurry with a trowel in at least 2 coats. Apply the 1st coat thickly and surface-tight. Apply the 2nd coat after approx. 6 hours, at the latest after 24 hours.
- For waterproofing work with INTRASIT VK 10A, the waterproofing slurry is applied twice, alternating with the silicification fresh in fresh (starting with INTRASIT VK 10A).

Drying / Follow-up work

- After curing, protect INTRASIT DS1 54Z from damage (plaster, screed, tiling, drainage slabs, etc.) and from drying out too quickly (keep moist for at least 24 hours).



NOTES

Cleaning

- Clean tools immediately after use with water.
- Hardened material can only be removed mechanically.

System products

- INTRASIT® VK 10A

To be observed

- Maintain a processing temperature of +2 °C to +30 °C.
- Do not penetrate the waterproofing with nails or dowels.
- Do not mix with other building materials.

Ingredients

- Standard cements
- Mineral aggregates
- additives
- Additives
- Sealant

Occupational safety / Recommendation

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of according to EAK code no. 17 01 01 (concrete).

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.