

# INTRASIT® Poly-C1 54Z



Sealing compound for sealing above and below ground, 1.5 - 5 mm

With general construction supervision proof certificate



## Characteristics

**INTRASIT® Poly-C1 54Z** is a pasty sealant based on polymer-cement with a good adhesion. After mixing the two components together, it becomes a PCC mortar suitable for spreading. For a brushable consistency, add 1 % of water. **INTRASIT® Poly-C1 54Z** hardens completely and without stress even in layer thicknesses of 5 mm.

- Crack-bridging
- Impervious to water
- Flexible at low temperatures
- resistant to frost and de-icing salt
- Universal in use
- Can be plastered over

## Use

**INTRASIT® Poly-C1 54Z** for waterproofing above and below ground on concrete, plaster and brickwork, for alternative sealing below tiling indoors and outdoors. For horizontal sealing under rising walls. As intermediate and spray water sealing as well as adhesion bridge. When completely sealing concrete surfaces, also in the area in contact with soil and as cellar waterproofing to DIN 18533 W1-E, W4-E. For waterproofing plinths and glueing perimeter insulation boards in the area of splash water. **INTRASIT® Poly-C1 54Z** is resistant against the aggressive substances usually found in the soil. Due to its good UV-resistance, **INTRASIT® Poly-C1 54Z** can also be used as carbonation brake with concrete components freely exposed to the weather.

## Areas of application:

- Concrete, plaster/rendering, masonry
- Damp or wet conditions (washrooms, showers, etc.)
- Balconies, terraces, patios, covered walks
- Sealing of concrete surfaces in contact with the soil

## Specifications

Presentation	paper bag / PE container
Liquid component	5 kg
Powder	15 kg
Delivery quantity	40 bags / 40 containers per pallet
Color	grey
Density, mixed	1.70 kg/l
Working temperature	+5 °C to +30 °C
Workable time	1.5 - 2.0 hours
Cold brittle (25 mm spike)	< 0 °C
Elongation at tear	approx. 80 %
Max. tensile strength	approx. 1.10 N/mm <sup>2</sup>
Adhesive tensile strength on concrete	
Dry	0.8 N/mm <sup>2</sup>
Damp	0.9 N/mm <sup>2</sup>
After freeze-thaw cycling	0.7 N/mm <sup>2</sup>
Imperviousness	3 bar / 28 days
Rain-proof <sup>1)</sup>	after about 3 hours
Fully hardened and load-bearing <sup>1)</sup>	after about 24 hours
VOC-concentration	< 0,01 %
water damp diffusion	approx. 1800
Storage	frost-free and dry, 12 months

## Quantity req. / thickness of layer

Normal conditions	approx. 3 kg/m <sup>2</sup> corresponding to 1.5 mm dry layer
Water under pressure	approx. 4 kg/m <sup>2</sup> corresponding to 2.0 mm dry layer
	app. 3,4 kg/m <sup>2</sup>

Building waterproofing as per  
DIN 18533 W1-E and W4-E

- Based on the construction site, the quantities listed here can increase by 1 - 1.5 kg/m<sup>2</sup> (due to the uneven ground or the application of the material). Equalization and scratch coats must be considered separately.

<sup>1)</sup> At +20 °C and 60 % relative humidity.

INTRASIT® Poly-C1 54Z

## Preparation of the surface

Substrates must be firm, planar, stable and free of oil, grease, frost, dust, dirt, residual mortar and loose debris or particles.

Dry substrates must be pre-wetted to give a matt appearance. Masonry must be fully pointed. Angle off edges and corners, apply hollows.

Small depressions can be smoothed out with a scratch coating of **INTRASIT® Poly-C1 54Z**.

Brush or spray on **VESTEROL® TG 10D** as a primer for gypsum plaster and plasterboards (gypsum wallboards). Apply **IMBERAL® Aquarol 10D** as a primer on all absorbent, mineral substrates.

## Application

Guidelines are DIN 18533 for waterproofing of buildings and DIN 1053 for masonry.

1. Stir **INTRASIT® Poly-C1 54Z** using a slow-running agitator (revolving at 400 to 600 rpm). Stirring time is about 2 - 3 minutes. The powder is stirred into the liquid component.
2. For a slurry-like consistency: add approx. 0,2 l of water (1%) to the ready-mixed sealing slurry while stirring it well.
3. **INTRASIT® Poly C1 54Z** can be applied with a brush, trowel or float, or sprayed. Be sure to apply the sealing compound evenly. Avoid trowel marks in the material surface.
4. The maximum layer thickness that can be applied per coating session is 5 mm.
5. To achieve a homogenous, uniform sealing layer without pores, it is recommended to apply the sealing slurry in two sessions.
6. Drying time of 3 - 5 hours between the coating sessions, depending on the weather conditions.
7. Clean tools with clean water immediately after use.

## Precautions

Protect from mechanical stress until the sealing has dried adequately.

Observe protective layers according to DIN 18533.

## hahne system products

IMBERAL® Aquarol 10D

IMBERAL® VE 89V

INTRASIT® SM 54Z

VESTEROL® TG 10D

## Important notes

- Observe a working temperature of +5° C to +30 °C.
- If the product is applied in direct sunlight, at elevated temperatures and windy weather, early skin formation must be expected.
- For use on dry or nearly dry substrates only.
- Avoid deep trowel marks in the surface.

## Ingredients

Liquid component: polymer dispersion, additives

Powder: special cements, mineral aggregates, additives

## Safety provisions/recommendations

Powder component contains cement and will cause alkaline reactions when it comes into contact with moisture or 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

**Sievert Baustoffe GmbH & Co. KG**

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