

Crack-bridging, two-component coating compound for alternative damp-proofing with layer thicknesses from 1.5 to 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.

- Bridges hairline cracks
- Impervious to water under pressure
- Flexible at low temperatures
- Universal in use
- Up to 5 mm thick layers are possible

Use

INTRASIT® Poly-C1 54Z is used for sealing above and below ground on concrete, plaster and masonry, and as an alternative sealing under tile coverings indoors and outdoors. For horizontal sealing under rising walls. It is also used for horizontal, intermediate, and splashproof sealing, and also for sealing entire concrete surfaces, including surfaces in contact with the soil.

For the sealing of building bases and insulating wall panels in splash water areas.

INTRASIT® Poly-C1 54Z is resistant to aggressive substances which are usually present in the soil. Due to its good UV-resistance, **INTRASIT® Poly-C1 54Z** can also be used as a carbonation inhibitor on concrete parts which are exposed to 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 ²
Adhesive tensile strength on concrete	
Dry	0.8 N/mm ²
Damp	0.9 N/mm ²
After freeze-thaw cycling	0.7 N/mm ²
Adhesive tensile strength with HADALAN® FKFlex g 54Z	
Dry	approx. 1.3 N/mm ²
Crack bridging	> 0,75 mm at 2.0 mm thickness
Imperviousness	3 bar / 28 days
Rain-proof ¹⁾	after about 3 hours
Fully hardened and load-bearing ¹⁾	after about 24 hours
VOC-concentration	< 0,01 %
water damp diffusion	approx. 1800
Storage	frost-free and dry, 6 months

Quantity req. / thickness of layer

Normal conditions	approx. 3 kg/m ² corre- sponding to 1.5 mm dry layer
Water under pressure	approx. 4 kg/m ² corre- sponding to 2.0 mm dry layer

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

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 18 195 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 18 195 part 10.

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IMBERAL® Aquarol 10D
 IMBERAL® VE 89V
 INTRASIT® SM 54Z
 INTRASIT® Poly-C2 55Z
 VESTEROL® TG 10D
 HADALAN® DDV 32P

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. Please see the current safety data sheet for more information regarding transport safety, storage and manipulation.

Disposal

The local waste removal regulations must be observed.

Manufacturer

Heinrich Hahne GmbH & Co KG
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This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply. Version as of 6.2014