

POLY-C1 54Z



2K FLEXIBLE, POLYMER-MODIFIED CEMENTITIOUS WATERPROOFING COATING

hahne POLY-C1 54Z is a two-component, polymer-cement-based waterproofing compound for waterproofing concrete, plaster and masonry substrates. After mixing the liquid and powder components, the material forms a well-adhering, flexible waterproofing coating which can be brush applied



PRODUCT INFORMATION

Area of Applications

- Bathrooms, toilets, kitchens and wet areas.
- Balconies, terraces, canopies and chajjas.
- Concrete roofs and concealed roof waterproofing.
- Internal sides of domestic water tanks and reservoirs.
- Internal damp walls and concrete surfaces.
- Concrete foundations, basements and suitable below-ground structures.
- Planters and other suitable cementitious waterproofing applications.
- Waterproofing below tiles in wet areas.

Features and Benefits

- Two-component flexible cementitious waterproofing system.
- Excellent adhesion to concrete and masonry substrates.
- Excellent resistance to water ingress.
- Suitable for application on damp / SSD mineral substrates.
- Suitable for positive-side waterproofing applications.
- Suitable for internal and external waterproofing applications

Consumption

Approx. 1.6 - 1.8 kg/m² @ 1 mm DFT in two coats.

*Consumption will vary depending on site and substrate conditions

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TECHNICAL SPECIFICATIONS

Property	Test Method	Result
Tensile Strength	ASTM D 2370-2016	> 1 N/mm ²
Elongation @ Break	ASTM D 2370-2016	50 - 60 %
Static Crack-bridging	EN 1062-7	1 mm
Pull-off Adhesion Strength to Concrete	ASTM D 7234-2022	> 1 N/mm ²
Depth of Water Permeability @ 7 Bar	EN 12390-8-2019	Nil
Negative Side Water Permeability @ 5 Bar	ASTM D 7088-2017	Pass

APPLICATION PROCEDURE

Surface Preparation

- The substrate must be sound, level, clean and free from loose particles, laitance, dust, oil, grease, curing compounds and other contaminants.
- Mechanically remove weak or poorly bonded material and suitably clean the surface.
- Repair surface undulations, cracks, crevices, honeycombs and other defects using a compatible polymer-modified repair mortar.
- Provide suitable 45° fillets at wall-floor junctions, corners, upstands and other critical detailing locations.
- All plumbing, pipe inserts and sanitary fittings should be completed and properly grouted before waterproofing application.
- The substrate should be in a Saturated Surface Dry (SSD) condition, damp but without standing water, before application.

Mixing

- Shake or stir the liquid component thoroughly until a uniform consistency is obtained.
- Use a heavy-duty slow-speed mechanical mixer fitted with a suitable paddle.
- Gradually add the powder component into the liquid component under continuous stirring.
- Mix thoroughly until a homogeneous, lump-free slurry is obtained.
- For **hahne POLY-C1 54Z**, the complete 20 kg set consists of approximately 5 kg liquid component and 15 kg powder component, maintaining a 1:3 liquid-to-powder ratio by weight.
- Do not add water, cement, sand or other admixtures unless specifically approved for the system.

Application

- Pre-wet the prepared substrate thoroughly and allow excess water to drain. The surface should remain damp without standing water.
- Apply the first coat using a stiff nylon brush, working the material well into the substrate to fill minor surface irregularities.
- Where reinforcement is specified, embed compatible non-woven geotextile fabric at critical junctions / angle fillets while the first coat is still wet.

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- Allow approximately 6–8 hours, or until the first coat is adequately dry, before applying the second coat.
- Apply the second coat perpendicular to the first coat to achieve uniform coverage and continuous waterproofing.
- Allow the completed system to air-cure for approximately 3–5 days under normal conditions.
- In bathrooms and internal areas, protect the coating from direct sunlight and allow adequate curing before subsequent finishes.
- For tile applications, it is recommended to sprinkle suitable coarse quartz sand onto the second coat while it is still wet where required to provide a mechanical key for subsequent tile adhesive.

PACKAGING, STORAGE AND SAFETY

Packaging

- **hahne POLY-C1 54Z** is available in 20 kg set (5 Kg liquid + 15 kg powder)

Storage and Shelf Life

- Store the adhesive in a cool, dry place, away from direct sunlight and moisture, to maintain its quality.
- The shelf life of the product is 12 months if stored in its original sealed packaging.

Safety Instructions

- Use protective gloves and safety glasses during application.
- Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Do not ingest.
- Non-toxic and non-flammable.
- Refer to the Safety Data Sheet before use.

DISCLAIMER: The information and application guidelines provided by the company and its representatives are intended solely as a general reference. Users are strongly encouraged to conduct their own tests and trials to verify the product's suitability for their specific requirements before proceeding with full-scale use. As the identification of underlying issues, the quality of other materials and the workmanship on-site are beyond our control, we cannot offer any express or implied guarantees regarding the results. The company disclaims any liability for damages or unsatisfactory outcomes that may arise from the use of our products.