

2-Component Epoxy-Seal Adhesive

# codex Epoxiflex Plus

Highly flexible epoxy-resin adhesive and bonded sealer for ceramic and natural stone tiling

## Description:

Highly flexible, 2-component epoxy-resin for use as a bonded seal-coat and installation material, in constructions heavily exposed to water and chemicals, in the course of interior and exterior wall and floor tiling work.

For wear classification C, with the general construction industry test certificate (abP) in respect of the test criteria for liquid-applied damp-proofing materials used in conjunction with large and small format tiles.

Suitable amongst others for/on:

- ▶ catering kitchens, swimming pools
- ▶ commercial and industrial locations
- ▶ swimming pools and surrounding areas (showers, saunas and spas)
- ▶ ceramic tiles, mosaics
- ▶ natural and artificial stone and synthetic stone tiling
- ▶ interior sealing of industrial water containers
- ▶ cement screeds, concrete
- ▶ brickwork, gas concrete
- ▶ plaster (MG II & III)
- ▶ gypsum-based substrates and dry construction boards
- ▶ dense surfaces such as metal, glass and several plastics
- ▶ balconies and terraces
- ▶ electrical or warm water underfloor heating systems

## Product Properties / Benefits:

Highly flexible, 2-component epoxy-resin produced by mixing Resin A with Hardener B. Thick consistency and rapid setting with excellent resistance to the effects of weather, water, chemicals, acids and mechanical wear.



Composition: Resin A: epoxy resins, plasticising synthetic resins, mineral additives, bonding agents and additives. Hardener B: polyamine, mineral aggregates.

- ▶ Low slump
- ▶ Trowel application
- ▶ Easy to apply
- ▶ Bridges cracks, stress-free and flexible when set
- ▶ Chemical-resistant
- ▶ Water impermeable and freeze-thaw resistant
- ▶ For heaviest wear areas
- ▶ Official test certification

## Technical Data:

Packaging:	metal combi-can
Packsize:	6 kg, 12 kg
Shelf life:	min. 12 months
Colour:	grey
Mixing ratio:	A : B = 5 : 1 parts by weight
Working temperature:	10 °C to 25 °C / 50 – 77 °F
Working time:	30 – 40 minutes*
Ready for grouting:	after approx. 1 day*
Fully load bearing:	after approx. 7 days*

\* At 20 °C / 68 °F and 65 % relative humidity.

## Substrate Preparation:

The substrate must be level, sound, dry, free from cracks, clean and free from materials that would impair adhesion.

Test the substrate in accordance with applicable standards and notices and report any deficiencies. Mechanically prepare smooth concrete and weakly bonded or soft surfaces and clean until dust free.

According to substrate type and condition, prepare with suitable primers and smoothing compounds from the codex range.

Prime mineral surfaces with Epoxy Primer-Sealer UZIN PE 460 and continue within 3 days with codex Epoxiflex Plus. In the case of longer waiting times, prime with Epoxy Primer-Sealer UZIN PE 460 and broadcast with UZIN Quartz Sand to form a dry excess.

Always allow primers to dry thoroughly.

Refer to the Product Data Sheets for the codex products used.

## Application:

1. Before use, allow the combi-can to come to room temperature. Allow the hardener (Hardener B) to drain completely into the lower container (Resin A) and thoroughly mix the combined components with suitable mixing equipment (spiral, propeller or basket mixer or similar). Decant the mixed material into a second container and mix thoroughly once again.
2. **Seal-coat:** Before surface sealing, bond UZIN Seal-Tape / Collars with codex Epoxiflex Plus to corners and joints, edges, ducts and connections, floor drains, etc. Apply codex Epoxiflex Plus evenly using a 4 mm notched trowel and, with a flat-edged trowel, smooth out the ridges to leave a fully sealed coat. After the first coat has dried, repeat the procedure for the second coat. Ensure a minimum 1 mm dry coat thickness at any point.
3. **Installation:** After the seal-coat is set to foot traffic, the tiling can be installed with codex Epoxiflex Plus using the thin-bed method. With a flat-edged trowel, scratch-apply the adhesive onto the surface and then draw through with a notched trowel to produce uniform adhesive ridges. With a light twisting motion, fully push the tiles into the adhesive bed and press well down. Only mix as much adhesive as can be covered with tiles within 60 minutes.
4. **Cleaning:** Clean tools immediately after use with UZIN VE 124. Hardened material can only be removed by mechanical means.

## Consumption:

Application	Trowel Notch	Consumption	Coverage per 12 kg can
Seal-coat	2 x 4 mm (C1)	2.5 kg / m <sup>2</sup>	4.8 m <sup>2</sup>
Installation	6 mm (C2)	1.8 kg / m <sup>2</sup>	6.6 m <sup>2</sup>
	8 mm (C4)	2.2 kg / m <sup>2</sup>	5.5 m <sup>2</sup>
	10 mm (C5)	2.6 kg / m <sup>2</sup>	4.6 m <sup>2</sup>

Other consumption values are possible depending on the condition of the surface and the angle of the notched trowel.

## Important Notes:

- ▶ Shelf life minimum 12 months in original packaging when stored in relatively cool, dry conditions. Cold conditions can thicken the material.
- ▶ Optimum working conditions are 20 – 25 °C/68 – 77 °F. Low temperatures deteriorate the working consistency and delay setting. High temperatures shorten the pot-life and setting time. Cannot be used at below 10 °C/50 °F.
- ▶ To ensure suitability in special applications, please request our list of Resistant Materials.
- ▶ For usage temperatures above 65 °C/149 °F, obtain technical advice.
- ▶ For surfaces made of diverse plastics, alloys and surfaces that are difficult to assess, it is recommended to conduct a test.
- ▶ Waiting time between coats must be a maximum of 24 hours. Apply epoxy-resin adhesive not later than 3 days after applying the seal-coat.
- ▶ For large and small format tiling work into bonded seal-coats, ensure a solid bed installation and use the appropriate application method.
- ▶ codex Epoxiflex Plus is not a substitute for a structural seal in accordance with DIN 18 195. When sealing structures against moisture, refer to the installation guidelines in DIN 18 195 Part 4.
- ▶ Protect freshly laid surfaces from soiling, direct sunlight and sources of heat, cold and frost.
- ▶ Immediately remove excess adhesive from the joints taking care not to contaminate the joint edges and tile surface. After the adhesive has set, the tiles can be grouted with codex Epo Tix.
- ▶ Applicable and especially recommended are:
  - DIN 18 352 "Large and small format tiling work"
  - DIN 18 195 Construction Damp-proofing
  - ZDB publication "Notes for the installation of seal-coats in conjunction with interior and exterior, large and small format tile coverings"
  - AGI guideline "Requirements for sealed surfaces / tile coverings against chemical attack"
  - BEB work-sheet KH-6

## Protection of the Workplace and the Environment:

Solvent free. Non flammable. Comp. A: Irritant. Contains epoxy resin. Comp. B: Corrosive. Contains amine hardener. Both components: May cause irritations to eyes, skin or respiratory system. May cause sensitisation by skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In liquid form, "hazardous to the environment", therefore do not allow into drains, water courses or landfill. Observe safety information on product label as well as safety data sheet. Once cured, has neutral odour and presents no physiological or ecological risk.

## Disposal:

Do not allow into drains, water courses or land-fill. Empty, scraped-out and drip-free metal containers are recyclable. Containers with unhardened residues and collected, unhardened product residues are Special Waste. Mixed and hardened product residues, as well as containers with mixed and hardened residues are Construction Waste.