

CIKObinder PU

Stone Carpet Binder for indoor and outdoor use

Description

CIKObinder PU is a solvent free, low VOC, filler free, two component polyurethane floor binder for indoor and outdoor application used in conjunction with special aggregate, stones and filler to form a stone carpet floor finish.

Properties

- Easy to mix (Pre-Weighed packs)
- Easy to apply.
- Low viscosity
- Excellent binder properties
- Excellent mechanical properties
- Chemical resistant
- Low to no odour
- Smooth ending
- High gloss appearance

Application area

CIKObinder PU is suitable for:

- Interior decorative areas
- Exterior decorative areas (recommended to apply a top coat from CIKOshield wide range of products)
- Binder for stone carpets
- Decorative colour quartz floors

Physical properties @ 25°C

Form	Two components system
Colour	Clear in general and available in wide range of colours upon request
Mix density	1.12 kg/L
Mix viscosity	1100 mPa.s
Mixing ratio	Pre-weighed packs
Pot life	30-45 min

Coverage

CIKObinder PU coverage depends on the size of the stones used. The below table give approximate consumption:

Stones size	Stone:Binder ratio	CIKObinder PU %
1.5-2.2mm	1:12	8%
2.0-3.2mm	1:15 to 1:17	6%
3.0-5.6mm	1:17 to 1:20	5%

Stones size	Thickness	Mix coverage
1.5-2.2mm	>5mm	~ 10 kg/m ²
2.0-3.2mm	>8mm	~ 16 kg/m ²
3.0-5.6mm	>12mm	~ 24 kg/m ²

Application instructions

Surface preparation

The substrate should be free from dust and loose particles. All contamination should be treated well before application of CIKObinder PU. In case of presence of traces of oil or grease on the substrate, it shall be removed by suitable means. Concrete surfaces shall be grinded using concrete diamond disk to reduce undulations. Alternative mechanical means

Priming

Priming is required on properly prepared concrete surfaces using adequate primer from CIKOPoxy Prim wide range of products and kept to cure for at least 12 to 24 hours.

Mixing

The base component [Part-A] of CIKObinder PU should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for two minutes and ensure that all settled particles are dispersed and that a homogenous mix with uniform colour is obtained.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and mix well for 3 to 5min to achieve a homogeneous and uniform consistency.

Note: do not work out of the original container. After proper mixing to a homogeneous consistency pour the

mixed product into a new container and mix for another minute.

Coloured and oven dried silica sand or other fillers, stones shall be added gradually to the premixed binder under constant mixing until all surfaces of fillers and stones are fully covered with the binder.

Application method

Properly mixed material should be applied using a trowel over the primed substrate maintaining the required thickness. Then level by a template strips and compact using a trowel or power float. After application, the material should be protected from direct contact with water for at least 1 day.

A further shield coat shall be applied in case of exterior applications as per requirements.

Consult CIKO technical service department for further support.

Cleaning

Equipment's are to be cleaned with CIKOsol immediately after usage.

Packaging

CIKObinder PU is available in 5 kg kit.

Shelf life

CIKObinder PU has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKObinder PU should be stored under enclosed shaded area at temperatures ranging from 5 °C to 30°C.

Precautions

Prior application of CIKObinder PU, ensure that

- The substrate moisture content is less than 4% for primer application.
- Bond strength of the substrate must be at least 1.5 MPa
- The ambient temperature is between 10 – 40 °C.
- The substrate temperature is between 10 – 35°C
- The relative humidity is below 75%.

Health & safety

CIKObinder PU should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For further technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Adhesives and bonding agent
- Concrete repair materials
- Protective coating
- Joint Sealants
- Moulding compounds