

# CIKObond DS

## Epoxy based adhesive for dissimilar substrates

### Description

CIKObond DS is a two component epoxy based adhesive for bonding dissimilar materials such as concrete, stones, wood, porcelain / ceramic tiles, steel and many more. It provides excellent adhesion to vertical and horizontal substrates.

CIKObond DS is a blend of premium quality epoxy cured with a special grade of hardener and reinforced with fine fillers. It offers good adhesion to almost any type of materials.

CIKObond DS is available in two versions, the medium cure (MC) and rapid cure (RC)

### Properties

- Two component epoxy based binder system.
- Easy to mix and apply.
- Exhibits excellent bond between dissimilar materials.
- Provides water resistant beddings.
- Suitable for wide range of applications.
- Resistance to general chemicals.

### Application area

CIKObond DS as a binder is suitable for both industrial and commercial segments such as,

- For fixing floor toppings such as ceramic tiles or stones on concrete, wood and steel.
- Suitable for fixing stone
- As a binder on damp surface.
- Repair of precast concrete units.
- Dowel bar anchoring, fixing cat's eye and road studs on asphalt pavements.
- Thixotropic epoxy mortar for joint filling, grouting, bedding etc.
- Fixing and filling precast stairs
- Filling gaps in concrete structures.

### Physical Properties

Criteria	CIKOBond DS (MC)	CIKOBond DS (RC)
Form	Thick Paste	Thick Paste
Colour	Grey	Grey
VOC (USEPA-24)	< 10g/L	< 10g/L
Pot Life @25 <sup>0</sup> C	40 to 60 minutes	7 to 10 minutes
Compressive Strength ASTM C579 @ 7 days	>60N/mm <sup>2</sup>	>60N/mm <sup>2</sup>
Flexural Strength ASTM C580 @ 7 days	>15N/mm <sup>2</sup>	>15N/mm <sup>2</sup>
Tensile strength ASTM D638 @ 7 days	>7N/mm <sup>2</sup>	>7N/mm <sup>2</sup>
Slant Shear Bond Strength ASTM C882 @ 7 days	>10N/mm <sup>2</sup>	>10N/mm <sup>2</sup>
Response to Thermal and Humid Aging ASTM D2126-15 at 50 <sup>0</sup> C	PASS	PASS
Shore A Hardness ASTM D2240 @ 24 hours	>60 @ 25 <sup>0</sup> C	>70 @ 25 <sup>0</sup> C
	>50 @ 49 <sup>0</sup> C	>65 @ 49 <sup>0</sup> C

## Coverage

A 1.0 kg of Mixed CIKObond DS (MC) & (RC) will provide coverage of approximately 0.57 to 0.58 m<sup>2</sup> at 1mm thickness.

In general the coverage depends on kind of application and type and condition of substrate. Consult CIKO technical service department for further guidance.

## Application instructions

### Surface preparation

The substrate surface should be free from dust and loose particles. All contamination should be treated well before the application of CIKObond DS.

In some cases treating the surface of the material to be adhered is required either mechanically or chemically with the suitable solvent or agent to increase the mechanical and chemical bond Strength and compatibility.

### Mixing

The base [Part-A] and hardener [Part-B] components of CIKObond DS should be mixed thoroughly using a Heavy duty slow speed drill paddle assembly for 2 – 3 minutes so as to achieve a homogenous colour mix.

### Application

Properly mixed materials should be spread or filled over the cleaned and properly prepared surface using notched trowel or a suitable tool as per the requirements within the working time of the material.

## Packaging

CIKObond DS is packed in 3.0 kg kits for the (MC) version and 1 kg kit for (RC) version consisting of Part A & B.

## Shelf life

CIKObond DS has a shelf life of 12 month if stored in unopened cans and in accordance with the mentioned storage conditions.

## Storage

CIKObond DS should be stored under enclosed shaded area at temperatures between 10 – 35°C.

## Precautions

CIKObond DS should not be applied at temperatures below 15°C for (MC) version and not below 5°C for (RC) version.

## Health & safety

CIKObond DS should not come in contact with eyes or to 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 any 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
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries