

# CIKObond DS



## Two components pure epoxy adhesive for dissimilar substrates

### Description

CIKObond DS is two components epoxy based adhesive for bonding dissimilar materials such as concrete, stones, wood, porcelain / ceramic tiles, steel, aluminium 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 & Advantages

- Two component epoxy-based binder system.
- Easy to mix and apply.
- Exhibits excellent bond between dissimilar materials.
- Provides water resistant beddings.
- Compatible with all construction materials.
- Resistance to general chemicals.
- Moisture tolerant and applicable in wet conditions.

### Application Area & Uses

CIKObond DS is a suitable adhesive and mortar for:

- Fixing floor toppings such as ceramic tiles or stones on concrete, wood and steel.
- Suitable for fixing and repairing stone
- Repair of precast concrete units.
- Dowel bar anchoring, fixing cat's eye and road studs on asphalt pavements.
- joint filling, resurfacing, and concrete repair.
- Fixing and filling precast stairs
- Filling gaps in concrete structures.

### Physical Properties

Criteria	CIKObond DS (MC)	CIKObond DS (RC)
Form	Paste	Paste
Colour	Light beige to light grey	Light Grey
Mixed Density (kg/L)	1.7 ± 0.02	1.72 ± 0.02
Mixing Ratio by weight	100:55	100:50
VOC (USEPA-24)	< 10g/L	
Pot Life/gel time @25°C (1 kg mixture)	40 to 60 minutes	8 to 15 minutes
Compressive Strength ASTM C579/D695 @7 days	≥60N/mm <sup>2</sup>	
Flexural Strength ASTM C580 @ 7 days	≥15N/mm <sup>2</sup>	
Tensile strength ASTM D638/D412 @ 7 days	≥7N/mm <sup>2</sup>	
Slant Shear Bond Strength ASTM C882 @ 7 days	≥10N/mm <sup>2</sup>	
Response to Thermal and Humid Aging ASTM D2126-15 at 50°C	PASS	
Shore A Hardness ASTM D2240 @ 24 hours	>60 @ 25°C	≥75 @ 25°C
	>50 @ 49°C	≥65 @ 49°C

## Coverage

1.0 kg of Mixed CIKObond DS (MC) & (RC) will provide coverage of approximately 0.57 to 0.59 m<sup>2</sup> at 1mm thickness.

Note: Coverage rates given are theoretical. Due to wastage and the variety or/and nature of substrates, practical coverage figures may be reduced, this will vary with site and application conditions

## 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. Support the adhered items where required for minimum 2 hours for (RC) and 8 hours for (MC).

### Packaging

CIKObond DS is packed in 3.0 kg kit 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.

#### Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified expert.

## Precautions

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

## Storage

CIKObond DS should be stored in its original packaging under enclosed shaded area away from direct sunlight, rain and moisture at temperatures between 5 – 35°C.

## 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

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.



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