

# CIKOsport SL70



## Solvent free Polyurethane self-levelling flexible membrane

### Description

CIKOsport SL70 is a solvent-free, 2 components aromatic polyurethane self-levelling system recommended as an intermediate wearing layer for sports floor system.

CIKOsport SL70 is based on liquid polyurethane resin cured with a special grade of hardener to form an elastic, flexible membrane applicable recommended to be applied at thicknesses ranging between 2 and 3 mm.

### Properties & Advantages

- Highly flowable.
- Self-levelling and self-smoothing
- Seamless finish
- Shock and impact absorbent
- Flexible and elastic
- Solvent free; Low VOC
- Compatible with polyurethane and epoxy based base coats and primers

### Application Area & Uses

CIKOsports SL 70 is suitable to be applied as an intermediate wearing course layer for all commercial and public buildings such as:

- Schools and kindergarten
- Playgrounds
- Lobbies and show rooms
- Health care facilities and nurseries
- Retail spaces
- Museums
- Sports venues

### Physical properties @ 25 °C

Form	Two components system Part A & B liquid
Colour	Standard Grey
Mixing ratio	Pre-weighted, partial mixing is not recommended
Solid content	99-100%
Specific gravity (Mixed)	1.35 ± 0.03 Kg/L

Pot life/working time (1 kg Mixture)	20-30 mins @ 25°C
	10-15 mins @ 35°C
Overcoating Time	Min. 24 hours @25°C
	Min. 18 hours @35°C
Final cure	7 days @ 25°C
	5 days @ 35°C
Tensile strength ASTM D412 @ 7days	≥2.5 N/mm <sup>2</sup>
Elongation at Break ASTM D412 @ 7days	≥40%
Shore A Hardness	85 ± 3 @ 7 days
Tear Resistance ASTM D1004	≥10 N/mm
Pull off Bond Strength to primed Concrete ASTM C1583	≥1.5 N/mm <sup>2</sup> (Concrete Failure) 7 days standard curing
Impact Resistance	No crack (4 kg, 150mm)
	Minor dent with no sign of crack (4.75 kg, 250 mm)
VOC EPA 24	<10g/l

### Coverage/ yield and recommended thickness

20 kg kit CIKOsport SL70 yields 14.5 to 15.1 L of material providing a theoretical coverage of 7.25 up to 7.55 m<sup>2</sup> at 2mm dry film 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

It is recommended to apply CIKOsport SL70 at a minimum thickness of 2 mm and maximum of 3 mm in a single layer application.

### Application Instructions

#### Surface preparation of rubber mats or bounded granules.

The substrate surface should be sealed properly with CIKOfiller PU and has totally dried, in case CIKOfiller PU is aged more than 3 days, roughen its surface using the suitable grit size of sandpaper to increase the mechanical bonding. The surface of CIKOfiller PU must be free from dust, sanding debris and loose particles. All contamination over the surface should be treated well before application.

### Surface preparation of concrete

The concrete substrate shall be fully cured aged at least 28 days achieving a surface pull off tensile strength of 1.5 N/mm<sup>2</sup>. The concrete surface should be free from dust and loose particles or weak thin layers. All contamination such as oil, grease and extraneous spillages must be cleaned using the suitable cleaning agent. Concrete shall be diamond disk grinded, grit/shot blasted or treated with equivalent and suitable mechanical means to achieve a concrete surface profile between CSP 3 and CSP 4 as per ICRI Technical Guideline.

The treated substrate must have a surface moisture content not exceeding 4% prior proceeding with primer application.

All cracks, deteriorated areas, joints shall be well treated and addressed using the appropriate epoxy-based repair and injection materials from CIKO wide range of products prior to the application of the primer

### Primer or scratch coat application over concrete

Use solvent free two components epoxy-based primers such CIKOpoxy Prim 14 or CIKOpoxy Prim 14-SF to prime the substrate.

To achieve a textured surface and in purpose of increasing the mechanical bond strength of CIKOsport SL70 broadcast CIKO ASG (0.3-0.5mm) over the still wet primer at a consumption rate not exceeding 1.2 kg/m<sup>2</sup>. Alternatively add CIKO ASG (0.1-0.3 mm) at a mixing ratio ranging between 0.7:1 and 1:1 by weight to the properly mixed primer and further mix for at least 2 to 3 minutes to attain a spreadable consistency of mixed density of approximately 1.7 kg/L that is suitable to be applied using trowel or scraper.

Spread the overall mixed materials over the concrete/screed surface at a rate ranging between 0.5 kg/m<sup>2</sup> up to 1.7 kg/m<sup>2</sup> depending on the required thickness. Maximum applicable thickness is 1 mm DFT.

Application and mixing instructions of primer and scratch coat should be carried out as per the respective technical data sheet. Allow the primer or scratch coat to dry for 12-24 hours depending on the prevailing ambient conditions prior proceeding with the application of CIKOsport SL70.

### Application of CIKOsport SL70

The base component [Part-A] of CIKOsports SL 70 should be mixed thoroughly using a heavy-duty slow speed drill-paddle assembly for two minutes and ensure that a homogenous mix with uniform colour is obtained. Transfer the mixed base component [Part-A] completely to a suitable container that can hold a volume of minimum 20 litres.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and further mix for 1 to 2 minutes to achieve a homogeneous mixture.

Properly mixed materials should be spread over the dry and clean surface using a notched trowel or pin rake maintaining the required thickness. Lay abutting edges within 10 minutes to ensure a clean edge. Maintaining a wet edge is important in avoiding lines and ridges on the finished floor. Back roll in two directions across with a spiked roller to help settle and even out the finish. Care shall be taken during spike rolling not to leave spike roller marks. This is strictly depending on placing time of material post mixing, ambient temperatures and ambient conditions.

It is applicable post spike rolling to broadcast the still wet finished surface with the appropriate size of EPDM granules depending on the thickness and desired texture.

The applied surface should be protected for minimum 18 to 24 hours depending on the prevailing ambient conditions from any source of foot traffic, condensation, water flow, rain or deposits, etc.

### Application of Aliphatic Polyurethane top protective coating (mandatory)

Prior to the application of the top protective coating, ensure that the applied CIKOsport SL70 is dry, free of dust or any other type of contamination.

The surface of CIKOsport SL70 must be abraded and smoothed using the suitable grit size of sandpaper should be properly vacuumed so that the surface is fully free from dust and loose particles.

Use a water based or solvent based two components aliphatic pigmented polyurethane based protective coating such CIKOcoat PUW or CIKOcoat UV333 applied in minimum 2 coats to achieve a minimum total dry film thickness of 200 microns.

Application instructions of topcoats should be carried out as per the respective technical data sheet.

The coated surface should be left and protected for minimum 12 hours, depending on the prevailing ambient conditions, from any source of feet traffic, water condensate or any deposits

## Precautions & Limitations

- Moisture content of the concrete substrate is less than 4% prior to epoxy primer application and there is no future risk of rising dampness
- Ambient temperature during and within 24 hours of application is between 10-30°C.
- Material preconditioning is always recommended at the ideal temperatures ranging between 18°C and 23°C.
- Substrate temperature during and within 24 hours of application is between 10°C and 30°C and minimum 3°C above dew point temperature to prevent risk of condensation and blooming on the floor finish.
- Relative humidity during and within 24 hours of application does not exceed 75%.
- The final coat shall be protected from foot traffic, any source of water or rain for at least 24 hours and will be ready for use after minimum 4 days.
- CIKOsport SL70 is highly sensitive to moisture and water, ensure during application no sweat drops into the fresh material.
- Do not apply CIKOsport SL70 in sloppy surfaces.

## Packaging

CIKOsport SL 70 is available in 10 kg and 20 kg kits consisting of Part A & B.

## Shelf life

CIKOsports SL 70 has a shelf life of 12 months if stored in accordance with CIKO instructions.

## Storage

CIKOsport SL 70 should be stored under enclosed shaded cold storage at temperatures ranging between 10 and 25°C away from moisture, rain, direct sunlight or frost.

## Health & safety

CIKOsports SL 70 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
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

## 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.

TDSFT22 Rev.:3 Issue: C

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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