

CIKOcoat ASP



Fast Drying, Single Component, Modified Acrylic Coating and Marking

Description

CIKOcoat ASP is a solvent based single component modified acrylic coating and skim coat specially formulated for asphalt, concrete, screeds and epoxy-based substrates.

CIKOcoat ASP is a self-priming coating that can be applied over porous and non-porous substrates. The cured product provides a tough coating that exhibits having good colour stability and resistant to wearing, abrasion and chemicals spillages.

Properties & Advantages

- Single component fast drying system that can be applied in several methods and techniques, spraying, rolling or trowelling.
- Provides excellent adhesion to many types of substrates including asphalt, bituminous pavements, concrete, epoxies and cement-based screeds.
- Multipurpose: primer, coating, skim coat or thick reflective road marking.
- Good UV stability
- Good chemical resistance to occasional spillages
- Abrasion and wear resistant

Application Area & Uses

- As self-priming, marking and coating over asphalt, concrete and epoxy-based coating systems subject to medium traffic density.
- Can be mixed or broadcasted with suitable grade and given proportion of CIKO ASG to skim, scratch and resurface irregular asphalt surfaces.
- CIKO Glass beads can be broadcasted over wet coat to create a reflective and textured road marking surfaces.

Physical properties

Form	Liquid
Colour	Wide range of colours
Density	1.15 ± 0.05 kg/L
Solid content (weight)	50 ± 5 % (depending on colour)
Finish	Semi-Gloss
Tack free time	20-25 minutes @ 25°C 10-15 minutes @ 35°C
Over coating time	4 to 8 hours
Full cure	7 days @ 25°C
Shore D hardness ASTM D2240	35-45
Water Absorption ASTM D570	≤ 5%
Pull off Bond Strength to concrete ASTM D7234/ ASTM D4541	≥ 1.5 N/mm ² @ 7 days (Concrete Failure)
Pull off Bond Strength to Asphalt ASTM D7234/ ASTM D4541	≥ 1.3 N/mm ² @ 7 days (Asphalt Failure)
Pendulum Test (Slip Resistance) CIKOcoat ASP+CIKOASG BS EN 14231	≥85 PTV (SRV)- Dry ≥65 PTV (SRV)- Wet
Abrasion Resistance ASTM D4060 (1 kg, 1000 cycles)	≤ 100 mg (CS-10) ≤ 200 mg (H-10)

Coverage

15 L kit of CIKOcoat ASP will provide a theoretical coverage of 50 m² at 150 microns DFT (300 WFT).

The coverage is subject to alteration as it highly depends on substrate type, absorption, surface finish, surface profile and condition.

Application instructions

Surface Preparation of Concrete

The concrete surface should be fully cured aged at least 28 days, free from dust and loose particles. All contamination such as oil, grease and extraneous spillages must be cleaned using the suitable cleaning agent. Concrete shall be grinded using diamond disks or treated with equivalent and suitable mechanical means to achieve a sound and open textured surface. Acceptable concrete/screed surface must have achieved a minimum compressive strength of 25 N/mm², surface pull off strength of 1.5 N/mm² and surface moisture content less than 4 %.

All contamination and dust should be treated and vacuumed well prior the application of CIKOcoat ASP.

Surface Preparation of Asphalt

The asphalt must be aged at least 3 months, well compressed and hardened. The surface of the asphalt shall be free of dust, debris or loose particles. It is advisable to water pressure the asphalt surface and allow full drying. Use air compressor or air blower to dry the surface and remove all deposits. It is recommended to apply a test area over asphalt prior proceeding with actual application as bleeding might occur with certain type and mixtures of asphalt.

Mixing

CIKOcoat ASP is a single component system that requires stirring using an adjustable speed drill-paddle assembly to ensure homogenous colour and solid distribution.

Application

Primer and sealer coat

Properly mixed material should be applied using brush, high-quality medium nap epoxy roller, or airless spray over the dry and clean surface at a consumption rate ranging between of 0.3 L/m² up to 0.35 L/m².

For anti-slip or textured finish or in purpose of increasing the mechanical bond strength of further layers, CIKO ASG may be uniformly broadcasted or fully ponded over the wet coat at a consumption rate ranging between 0.7 kg/m² up to 1.5 kg/m². The coated surface should be protected for at least 4 up to 8 hours from any source of water, condensate or foot traffic prior to the application of further additional coats. It is recommended to apply CIKOcoat ASP in minimum of two coats/layers at minimum 300 microns DFT.

The total dry film thickness depends on service requirements, application area, intended to use location and project specifications. Consult CIKO technical service department for assistance and further support.

Precautions

Prior and during the application of CIKOcoat ASP, ensure that:

- Moisture content of the concrete substrate is less than 4%.
- The surface of asphalt is totally dry and aged at least 3 months.
- Ambient temperature is between 10 – 35°C.
- Substrate temperature is between 10 – 30°C and at least 3°C above dew point temperature.
- Relative humidity is below 75%.
- Rain, water or water vapor condensate is not expected within 12 hours of application.

Packaging

CIKOcoat ASP is available in 4 L and 15 L pails.

Storage

CIKOcoat ASP should be stored under enclosed shaded areas away from direct sunlight, rain or moisture at temperatures ranging between 5 °C and 25°C.

Shelf life

CIKOcoat ASP has a shelf life of 12 months if stored in strict accordance to CIKO's storage instructions.

Health & safety

CIKOcoat ASP 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 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

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 experts.

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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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