



**sistema
icopark[®]**

Waterproofing system

***for vehicle
traffic***



Products of the ICOPARK SYSTEM



PRIMER: ICOPARK “PROMOTORE”

Two-component, solvent-based, epoxy primer for concrete substrates to be applied before ICOPARK MEMBRANE.



MEMBRANE: ICOPARK “RIVESTIMENTO”

Two-component, solvent-free, self-leveling, waterproof PU flooring with 100% solid content, suitable for vehicle and heavy pedestrian traffic.



TOPCOAT: ICOPARK “FINITURA”

Two-component, solvent-based, UV-resistant, aliphatic PU coating to be applied on top of ICOPARK MEMBRANE.

Benefits



Impervious to water



Traffic bearing



UV Resistant



Nonskid



Elastic



Systems for the protection
of concrete structures

icopark system



Durable, nonskid, UV-resistant, seamless waterproofing system suitable for vehicle and heavy pedestrian traffic.

Icopark consists of three separate products: PRIMER, MEMBRANE and TOPCOAT.

Uses

Icopark is suitable for areas exposed to light or heavy traffic, according to the application package.

The system is easy to apply and results in a high-bonding, trafficable, waterproofing protective layer that withstands UV rays and most chemicals.

Icopark is slip resistant and aesthetically pleasing. Recommended for:

- ✓ Garages
- ✓ Warehouses
- ✓ Parking lots
- ✓ Stadiums and Sports arenas
- ✓ Retail stores
- ✓ Loading bays
- ✓ Factories
- ✓ Residential or commercial roofs
- ✓ Cold storage rooms
- ✓ Showrooms
- ✓ Surfaces exposed to heavy pedestrian traffic



WATERPROOFING SYSTEM FOR VEHICLE
AND HEAVY PEDESTRIAN TRAFFIC



Surface preparation

Clean substrate thoroughly to remove dust, loose material or nonadhering particles, grease, oil, efflorescence and anything that may affect proper adhesion.

Scrape off previous coatings, mortars or contaminants that may act as bond breakers.

Substrate must be fully cured, dry, sound and solid. Ensure that no risk of rising damp exists in order to prevent possible delamination of the waterproofing layer.

Smooth out and level the surface with specific premixed mortars. Seal static cracks according to the intended use with a rigid cement product.

Seal dynamic cracks with the ICOJOINT EP/GL or ICOJOINT MS sealants.

The same products should be used to seal the expansion joints and for detailing, such as in the corners and floor-wall transitions. Prior to applying the sealant, it is recommended to prime the target area with ICOPARK PROMOTORE.



Application instructions

ICOPARK is designed to meet the requirements arising from different uses and traffic volumes by simply adjusting the number of coats, the coverage and the broadcast of quartz sand, as described below.

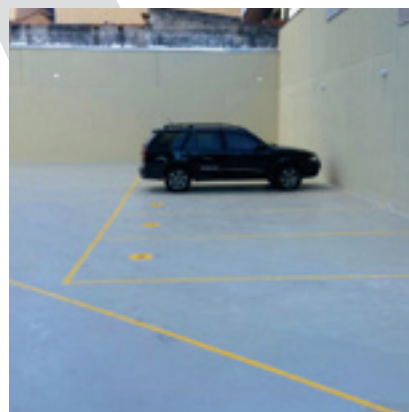
The waterproofing layer may be designed for light (2 mm thickness) or heavy vehicle traffic (thickness between 3 and 3.5 mm). Icopark can also be used in areas exposed to heavy pedestrian traffic.



Heavy pedestrian traffic

Once the substrate has been accurately prepared, proceed as follows:

- Apply ICOPARK PRIMER at a rate of 200-250 gr/m².
- Allow the primer to dry and then apply ICOPARK MEMBRANE at a rate of 1.2 kg/m² using a short nap roller or a 4-mm (3/16") notched trowel.
- After 12-24 h apply ICOPARK TOPCOAT ANTISKID in two coats at a rate of 300 gr/m². Observe the correct drying time. The non-slip ICOPARK TOPCOAT ANTISKID version is available on demand.



Light vehicle traffic

Once the substrate has been accurately prepared:

- Apply ICOPARK PRIMER at a rate of 200-250 gr/m².
- Allow the primer to dry and then apply ICOPARK MEMBRANE at a rate of 1.2 kg/m² using a short nap roller or a 4-mm (3/16") notched trowel.
- After 12-24 h (depending on weather conditions), apply a second coat of ICOPARK MEMBRANE by short nap roller at a rate of 0.5 kg/m². While still fresh, sprinkle with ICOFILL quartz sand until saturation (average rate 1.5 kg/m²).
- After 12-24 h remove excess sand and apply ICOPER TOPCOAT in two coats at a rate of 300 gr/m². Observe the correct drying time.



Heavy vehicle traffic

Areas that are exposed to higher mechanical loads, such as ramps and loading bays, must be treated accordingly. Once the substrate has been accurately prepared, proceed as follows:

- Apply ICOPARK PRIMER at a rate of 200-250 gr/m².
- Allow the primer to dry and then apply ICOPARK MEMBRANE at a rate of 1.2 kg/m² using a short nap roller or a 4-mm (3/16") notched trowel.
- After 12-24 h (depending on weather conditions), apply a second coat of ICOPARK MEMBRANE by short nap roller at a rate of 0.7 kg/m². While still fresh, sprinkle with ICOFILL quartz sand until saturation (average rate 1.5 kg/m²).
- After 12-24 h remove excess sand and apply a further coat of ICOPARK MEMBRANE by short nap roller, again at a rate of 0.7 kg/m². Also in this case, sprinkle while fresh with ICOFILL quartz sand until saturation (average rate 1.5 kg/m²).
- Once dry, remove excess sand and apply ICOPER TOPCOAT in two coats at a rate of 300 gr/m². Observe the correct drying time.



PRODUCT PERFORMANCES

HARMONIZED STANDARD EN 1504-2 : 2004

TEST METHODS	ESSENTIAL CHARACTERISTICS	REQUIREMENTS	
EN 1062-6	permeability to CO ₂	S _D > 50m	
EN ISO 7783-1-2	water vapor permeability	class II (5 < S _D < 50 m)	
EN 1062-3	capillary absorption and water permeability	w < 0.1 Kg/m ² · h ^{0.5}	
EN 1542	bond strength by pull off test	≥ 0,8 MPa	
EN ISO 6272-1	impact resistance	class III > 20 Nm (28Nm)	
EN ISO 5470-1	abrasion resistance	< 3000 mg (21.6 mg)	
EN 13501-1	reaction to fire	Euroclass E	
EN ISO 13529	resistance to severe chemical attack	reduction in Shore hardness < 50 %	
	group No.	days of exposure to pressure (class III)	reduction in Shore D hardness
	1 gasoline	28	14.70%
	4 all hydrocarbons	28	14.60%
	4a benzene and benzene containing mixtures	28	11.80%
	5 mono and polyalcohols, glycol ethers	28	7.90%
	9 aqueous solutions of organic acids up to 10%	28	14.80%
	10 inorganic acids up to 20% and acidic hydrolyzing salts in aqueous solutions (pH < 6)	28	15.00%
	11 inorganic bases and their alkaline hydrolyzing salts in aqueous solutions (pH > 8)	28	15.20%
	12 inorganic non-oxidizing salts (pH 6-8)	28	8.30%



FINAL PERFORMANCES

TEST METHODS	ESSENTIAL CHARACTERISTICS	SPECIFICATIONS
UNI EN ISO 868	Shore D Hardness	60
UNI EN ISO 527	Tensile elongation at break (after 15 dd at +23°C)	30.00%
UNI EN ISO 527	Tensile strength at break (after 15 dd at +23°C)	11.5 Mpa

TECHNICAL DATA

PRODUCT FEATURE (COMP. A + COMP. B)	ICOPARK PROMOTORE	ICOPARK RIVESTIMENTO	ICOPARK FINITURA
Product type	two component	two component	two component
Binding matrix	epoxy	polyurethane	polyurethane
Density UNI EN ISO 2811-1	0.94 ± 0.05 kg/L	1.44 ± 0.05 kg/L	1.24 ± 0.05 kg/L
Solid content UNI EN ISO 3251	50%	100%	67.50%
Viscosity UNI EN ISO 3219	29 cPs (R1 rpm 100)	3000 cPs (R5 rpm 100)	140 cPs (R2 rpm 100)
Catalysis ratio	50 - 50	83 - 17	66,66 – 33,34
Pot life UNI EN ISO 9514	8 h	30 m	2 h
Recoat time at +23°C (± 3°C) UNI EN ISO 9117-3	min 8h – max 24h	min 12h – max 24h	min 8h – max 24h
Full curing		5 7 dd	5 7 dd
Spread rate per coat	0.150 – 0.300 kg/m ²	according to applica- tion package	0.150 kg/m ²
Number of coats	1	according to applica- tion package	2
Shelf life	6 months	6 months	6 months

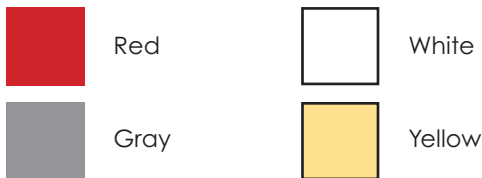
Safety measures

See SDS

Storage

Store in dry, well-ventilated areas at temperatures above freezing.

Colors (Topcoat)



Please contact our technical support at:
assistenza@icobititalia.com

Ensure that the TDS is up to date: the latest version can be viewed and downloaded at icobit.com
The manufacturer reserves the right to amend product specifications without notice. The above performances were measured according to the standards in force at the time of issue and represent the average results of our tests. Although highly reliable, they do not constitute a binding commitment nor liability for Icobit Italia S.r.l. The purchaser and the end consumer acknowledge responsibility for the product suitability to the intended use.



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PACKAGING



APPLICATION METHODS



NOTCHED TROWEL



ROLLER



AIRLESS

Icopark Topcoat



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