

# POLYPARK

Coloured multipurpose polyurethane coating solvent free

Two component coloured coating, self levelling, with high chemical and mechanical resistance, to use as finishing coating for indoor and outdoor. Applied over any kind of surfaces it becomes a driveway coating suitable also for heavy vehicles transit (fork lift). It is weatherproof. Suitable as protective coating of concrete structures for the containment of corrosive substances.

## ADVANTAGES

- Solvent free product
- Excellent resistance to the transit of wheeled vehicles
- Resistance to the aggressive action of weak acids, strong acids, solvents, oils and non stagnant hydrocarbons
- Salt resistant
- Suitable for food contact
- High resistance to weathering, freeze-thaw, UV rays
- It can be applied also during winter time (up to +10°C)
- Ageing resistant and it does not need maintenance
- It can be applied to finish waterproofing system based on synthetic resins

## APPLICATION FIELDS

The product is suitable for:

- outdoor parking areas, thank to its high resistance to vehicle transit and high resistance to UV rays;
- the pigmentation of the upper layer of floors, walls and wherever it is required to have a high level of hygiene and cleanliness (chemical lab, toilets etc...);
- the protective coating of concrete structures for the containment of corrosive substances.

It can be used indoor and outdoor.

## YIELD

0,60 kg/m<sup>2</sup> for 2 coats on a perfectly smooth surface.

## COLOUR

Yellow green RAL6018, traffic yellow RAL1023, oxide red RAL 3009.

Customized colours upon request.

## PACKAGING

- Part A – metal can 4 kg;
  - Part B (catalyst) – plastic bucket 1 kg.
- Pallet: - part A - n° 20 boxes;  
- part B - n° 4 boxes.

## STORAGE

Store the product in well ventilated areas, away from sunlight and ice, at temperatures between +5°C and +30°C.

Storage time: 12 months.



For application videos, product page, safety data sheet and other information.

# POLYPARK

Coloured multipurpose polyurethane coating solvent free

## Technical Data

Features		Units
Yield	0,60	kg/m <sup>2</sup>
Aspect	liquid	-
Colour	yellow green, traffic yellow, oxide red	-
Dilution	do not dilute	-
Mixture consistency	liquid	-
Mixing ratio	Part A (1) – Part B (0,25)	-
pH	6	-
Pot life at 20°C, R.H. 40%	30	minutes
Waiting time between 1st and 2nd coat (T=20°C; R.H. 40%)	max 24	hours
Application temperature	+10 /+30	°C
Max humidity	70%	-
Drying time (T=20°C; R.H. 40%)	24	hours
Driveway after	after 7	days
Working temperature	-15 /+40	°C
Storage	12 months in original containers and in dry places	months
Packaging	Part A – metal can 4 kg; Part B (catalyst) – plastic bucket 1 kg	kg

Final performances		Unit	Regulation	Result
Abrasion Taber test 1000 cycles Weight 1 Kg, wheels CS10	weight loss 0,045%	-	-	resistant
Weathering Test – cycles: 8h UV 60°C, 8h fog 50°C, 15 min rain	1000 hours (> 5 years*)	hours / years	UNI EN ISO 11507	unchanged
After 50 freeze-thaw cycles (-15°C/+15°C)	unchanged	-	UNI EN 202	unchanged
Salt resistance	-	-	-	excellent
Non stagnant solvent resistance	-	-	-	excellent
Strong acid resistance (50% concentration)	-	-	-	excellent
Resistance to non stagnant oil, diesel oil and fuel	-	-	-	excellent
Organic acid resistance	-	-	-	scarce
Sulfuric acid resistance (50% concentration)	Unchanged	-	-	excellent

## Coatings - Polyurethane

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Therefore, before using this product, we recommend in any case to perform preliminary tests with the purpose of verifying the complete suitability for the intended use. In case of uncertainties and doubts contact our technical office. This sheet supersedes any other previously released.

# POLYPARK

Coloured multipurpose polyurethane coating solvent free

Final performances		Unit	Regulation	Result
Food compatibility	-	-	-	excellent
Adhesion over concrete	3,0	MPa	UNI EN 1542 ASTM D4541	excellent
Elongation until break	121%	-	UNI-EN 8202	excellent
Crack Bridging Ability – 10 cycles	5,0	mm	-	excellent
Solid content	64%	-	ASTM D1644	-
Release in water	<10	mg/l	-	-
Water absorption (7 days full immersion)	0,015%	-	-	-

1680 hours of weathering test is equal to about 10 years. This equivalence is merely indicative and it may vary depending on weather conditions.

\* The above data, even if carried out according to regulated tests are indicative and they may be change when specific site conditions vary.

## PREPARATION OF SUPPORT

- The support must be completely hardened, dry and resistant enough.
- In presence of new realised cement substrate, this must be sufficiently dry and cured.
- The surface must be thoroughly clean, well consolidated, without debris or detaching parts and perfectly levelled.
- Remove dust, greases and oils with thinner or with water and muriatic acid. After using muriatic acid the surface must be washed with water and let dry.
- In case of very dirty or crumbly surface, a mechanical clean is advisable (sand blasting, blasting or brushing) and restore it with a suitable cement mortar (such as Diasen *Buildfix CLS*) o epoxy putty (such as Diasen *Epoifill Kit*).
- Substrate temperature must be between +10°C and +30°C and with a relative humidity lower than 4%. If there is water or residual humidity, application could be difficult, the aesthetic effect and the adhesion are not good and performances are worse.

## MIXING

Mix part A with part B, perfectly mix until obtaining a homogeneous mixture without lumps. Use a professional mixing drill. All the catalyst must be added with part A to allow a reaction and a perfect drying.

Apply the product within 30 minutes; after this period of time the product could quickly deteriorate.

Do not dilute the product with water or other solvent. Do not add anything else to the compound.

## APPLICATION ON CONCRETE

1. Apply a first coat of *Polypark* by short hair roller, taking care to completely cover the entire surface. In case of rain over non perfectly dry product verify the suitability of the successive layer.
2. Apply a second coat of *Polypark* when the first one is superficially dry. Wait at max 24 hours between the two applications.

## APPLICATION TO DIASEN WATERPROOFING SYSTEM

1. Once *Acriflex Winter* is completely dry (4 hours, see technical data sheet), apply a first coat of *Polypark* by short hair roller, taking care to completely cover the entire surface. In case of rain over non perfectly dry product verify the suitability of the successive layer.

## Coatings - Polyurethane

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Therefore, before using this product, we recommend in any case to perform preliminary tests with the purpose of verifying the complete suitability for the intended use. In case of uncertainties and doubts contact our technical office. This sheet supersedes any other previously released.

# POLYPARK

Coloured multipurpose polyurethane coating solvent free

- Whether *Acriflex Winter* should have been applied long time ago, before applying *Polypark* accurately clean the surface from dust, oils, greases, mechanically or with water pressure. Let dry.
- Apply a second coat of *Polypark* when the first one is superficially dry. Wait at max 24 hours between the two applications.

## DRYING TIME

At 20°C and 40% of relative humidity level, the product drying time is 24 hours and it is walkable. It becomes driveway after 7 days.

- Drying time is influenced by relative humidity level and by temperature and may change significantly.

## SUGGESTIONS

- Do not apply to substrate at temperatures lower than +10°C or higher than +30°C and with relative humidity higher than 4%.
- During summer season apply the product in the cooler hours of the day, away from sun light.
- Do not apply with imminent threat of rainwater or ice, in case of strong fog or relative humidity level higher than 70%.
- Do not use over flexible surfaces.

## CLEANING

Once the product is dry it becomes washable with water. Wash tools with ethyl alcohol.

## SAFETY

While handling wear personal protection means. For the handling, see product safety sheet.



## Coatings - Polyurethane

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Therefore, before using this product, we recommend in any case to perform preliminary tests with the purpose of verifying the complete suitability for the intended use. In case of uncertainties and doubts contact our technical office. This sheet supersedes any other previously released.