

# iBiotec®

**THE BRAND OF A MANUFACTURER**

**AEROSOLS and TECHNICAL PRODUCTS for industry**

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## **POLYURETHANE RESINS AND COMPOSITES**

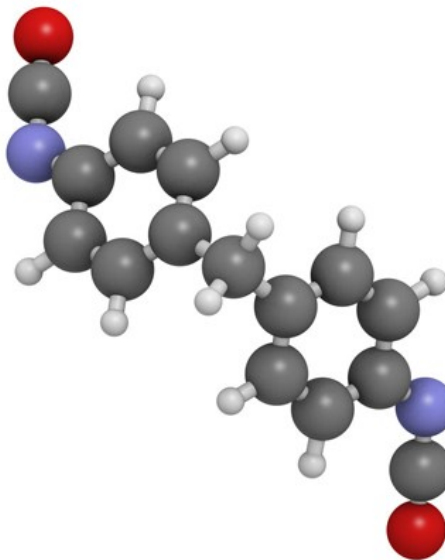
RESINE  
(MATRICE)

FIBRES

CHARGES

ADDITIVES

AME



**iBiotec® FAST CLEAN PU 110**  
**POLYURETHANE CLEANING SOLVENT**  
**RINSING FLUID FOR POLYURETHANE CASTING HEADS**  
**ON LOW PRESSURE MACHINE**  
**AGRO-SOLVENT**

Alternative solvent to methylene chloride with no modification to machine settings or cycle times.

**iBiotec® FAST CLEAN PU 110** is used to rinse RIM compact polyurethanes, type TDI and MDI, including with very short pot life.

**iBiotec® FAST CLEAN PU 110** is mainly made up of plant material by-products and materials found naturally in the environment.

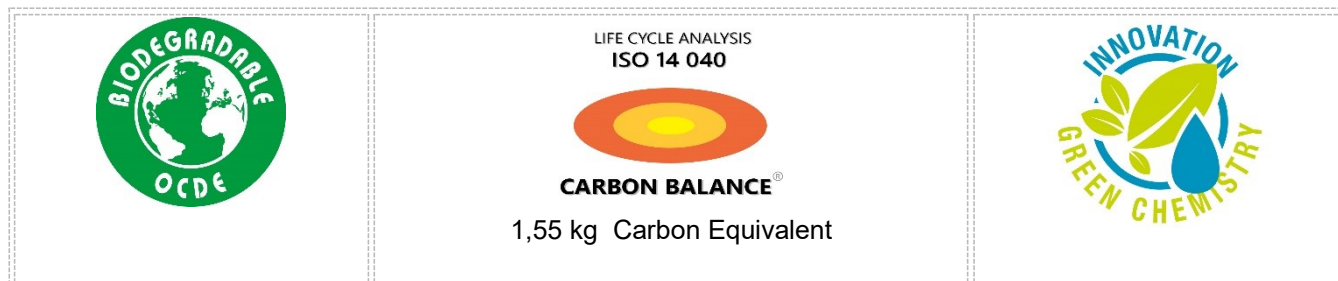
**iBiotec® FAST CLEAN PU 110** reduces organic vapour emissions to zero.

**iBiotec® FAST CLEAN PU 110** is not flammable. Its high flashpoint means that it can be used hot or cold in total safety.

**iBiotec® FAST CLEAN PU 110** contains no substance which is hazardous for health. Its constituent parts are not toxic, carcinogenic, mutagenic, toxic to reproduction, harmful, irritating, sensitising or corrosive.



## TECHNICAL DATA SHEET **iBiotec® FAST CLEAN PU 110**



**No hazard pictogram CLP 1272/2008 1079/2016**

Alternative solvent to methylene chloride with no modification to machine settings or cycle times.

### **ELIMINATION OF POLYURETHANES**

**iBiotec® FAST CLEAN PU 110** is the ideal solvent for eliminating polyurethanes in mixing rooms and casting heads of low pressure removal machines.

It is appropriate for the elimination of compact resins, foams and RIM. It is also an excellent cleaning agent for eliminating burrs on polyurethane joints used in mirror glass and glass and for cleaning removal tools such as spatula and guns.

**iBiotec® FAST CLEAN PU 110** is also used to clean resin and paint manufacturing tanks; it also eliminates pigments and colour pastes.

### **COMPACT POLYURETHANE REMOVAL MACHINE**

The washing cycle after injection of polyurethanes is as follows:

- Air blowing for 10 seconds;
- Injection of **iBiotec® FAST CLEAN PU 110** for 3 seconds;
- Air blowing for 30 seconds;
- Injection in investment casting to eliminate the residues totally.

These times are given as a guide and can vary according to the nature of the polyurethanes.

During the washing cycle, the mixing chamber can be positioned above a metal keg fitted with a funnel to recover the **iBiotec® FAST CLEAN PU 110** effluents.

These can be filtered (metal filter of 6/10th millimetre); the mix can also be allowed to settle for 24 hours.

**iBiotec® FAST CLEAN PU 110** can be reused four times in succession.

**iBiotec® FAST CLEAN PU 110** can also strip by soaking turbines in which polyurethane residues have polymerised, especially foam residues which have a very short reaction time.

## CREATING DOUBLE GLAZING JOINTS

Spatula are cleaned simply by soaking and guns by circulating.

### FORMULATION IMPROVING SAFETY

**iBiotec® FAST CLEAN PU 110** is not flammable. Its high flashpoint means that it can be used hot or cold in total safety.

**iBiotec® FAST CLEAN PU 110** contains no hazardous substance for health (Order of 9 November 2004): its constituent parts are not toxic, carcinogenic, mutagenic, toxic to reproduction, harmful, irritating, sensitising or corrosive.

**iBiotec® FAST CLEAN PU 110** does not emit hazardous vapours and is not toxic or harmful through contact with the skin.

### ENVIRONMENTALLY-FRIENDLY FORMULATION

**iBiotec® FAST CLEAN PU 110** is virtually non-volatile (1000 times less than methylene chloride).

In practical terms, **iBiotec® FAST CLEAN PU 110** reduces organic vapour emissions to zero.

Polyurethane casting workshops, double glazing manufacturing establishments and manufacturers of elastomers, paints and colour pastes can therefore comply without difficulty with the VOC emission limits (Order of 29 May 2000) during the cleaning stages.

**iBiotec® FAST CLEAN PU 110** does not emit any hazardous substance for the ozone layer or participating in global warming.

### TYPICAL PHYSICAL-CHEMICAL PROPERTIES

PROPERTIES	STANDARDS	VALUES	UNITS
Appearance	Visual	Clear	-
Colour	Visual	Amber	-
Smell	Olfactory	Without	-
Density at 25°C	NF EN ISO 12185	968	kg/m <sup>3</sup>
Refraction index	ISO 5661	nm	-
Freezing point	ISO 3016	-8	°C
Water solubility	-	partial	%
Kinematic viscosity at 40°C	NF EN 3104	3.0	mm <sup>2</sup> /s
Acid index Ia	EN 14104	<1	mg(KOH)/g
Iodine index	NF EN 14111	0	gl <sub>2</sub> /100g
Water content	NF ISO 6296	<0.1	%
Residue after evaporation	NF T 30-084	0	%

### PERFORMANCE CHARACTERISTICS

PROPERTIES	STANDARDS	VALUES	UNITS
KB index	ASTM D 1133	>200	-
Evaporation speed	-	>6	hours
Surface tension at 20°C	ISO 6295	32.0	dyne/cm
Copper blade corrosion 100 h at 40°C	ISO 2160	1a	Measured value
Aniline point	ISO 2977	nm	°C

### FIRE SAFETY CHARACTERISTICS

PROPERTIES	STANDARDS	VALUES	UNITS
Flashpoint (closed cup)	NF EN 22719	100	°C
Autoignition point	ASTM E 659	>270	°C
Lower Explosive Limit	NF EN 1839	non-explosive	% (volume)
Upper Explosive Limit	NF EN 1839	non-explosive	% (volume)
Explosive, oxidising agent, flammable, highly or extremely flammable substance content	CLP Regulation	0	%

### TOXICOLOGICAL CHARACTERISTICS

PROPERTIES	STANDARDS	VALUES	UNITS
Anisidine index	NF ISO 6885	<6	-
Peroxide index	NF ISO 3960	<10	meq(O <sub>2</sub> )/kg

TOTOX (anisidine index+2x peroxide index)	-	<26	-
CMR, irritant and corrosive substance content	CLP Regulation	0	%
Residual methanol content from transesterification	GC-MS	0	%
Emissions of hazardous compounds, CMR, irritants, corrosive at 100°C	GC-MS	Without	%

## ENVIRONMENTAL CHARACTERISTICS

PROPERTIES	STANDARDS	VALUES	UNITS
Water hazard	WGK Germany	1 without hazard for water	class
Primary CEC biodegradability 21 days at 25°C	L 33 T82	>80	%
OECD easy biodegradability 301 A over 28 days Disappearance of COD	ISO 7827	>80	%
OECD easy and ultimate biodegradability 301 D over 28 days Biodegradation at 67 days	MITI amended	>90	%

## PRESENTATIONS



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### USAGE RESERVE AUX UTILISATEURS PROFESSIONNELS

Consulter la fiche de données de sécurité.

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