

# iBiotec®

**THE BRAND OF A MANUFACTURER**

**AEROSOLS and TECHNICAL PRODUCTS for industry**

Datasheet - Last update: 2018/09/25

## **POLYURETHANE RESINS AND COMPOSITES**

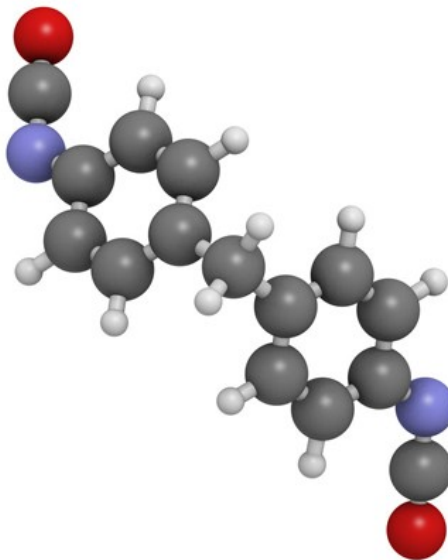
RESINE  
(MATRICE)

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

	<p>LIFE CYCLE ANALYSIS ISO 14 040</p>  <p>CARBON BALANCE®</p> <p>1,55 kg Carbon Equivalent</p>	
--	---	--

No hazard pictogram CLP 1272/2008 1079/2016

### MANUAL FOR COMPACT PU REMOVAL MACHINE

Wash cycle after polyurethane casting:

- Air blast – 10 seconds
- Injection of iBiotec® FAST CLEAN PU 110 for 3/5 seconds
- Air blast – 30 seconds

(These times are given as an indication; they may vary depending on the nature of the polyurethanes).

The lost casting (referred to as "trash casting") is usually made for several reasons:

- 1st reason: for the homogeneous mixing of Polyol, isocyanate and (possibly) dyes,
- To prevent air bubbles,
- To eliminate residue in the chamber.

During the wash cycle, the mixing chamber can be positioned above a keg that is equipped with a funnel in order to recover the effluents that can be filtered (6/10 of a mm metallic filter); the mixture can also be decanted over a period of 24 hours.

**iBiotec® FAST CLEAN PU 110 can in this way be re-used up to 4 times in a row, depending on the PU.**

Compatible with PTFE seals (tests at 20°C, 80°C and 100°C) and silicone seals.

Avoid using with the following kinds of seals: neoprène, Buna, butyl chorobutyl, Viton.

Usage precautions: store in a sheltered location, in a temperate atmosphere.

**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	ISO 7827	>80	%

Disappearance of COD			
OECD easy and ultimate biodegradability 301 D over 28 days Biodegradation at 67 days	MITI amended	>90	%

## PRESENTATIONS



**iBiotec® Tec Industries® Service**  
 Z.I La Massane - 13210 Saint-Rémy de Provence – France  
 Tél. +33(0)4 90 92 74 70 – Fax. +33 (0)4 90 92 32 32  
[www.ibiotec.fr](http://www.ibiotec.fr)

USAGE RESERVE AUX UTILISATEURS PROFESSIONNELS  
 Consulter la fiche de données de sécurité.

Les renseignements figurant sur ce document sont basés sur l'état actuel de nos connaissances relatives au produit concerné. Ils sont donnés de bonne foi. Les caractéristiques y figurant ne peuvent être en aucun cas considérées comme spécifications de vente. L'attention des utilisateurs est en outre attirée sur les risques éventuellement encourus lorsqu'un produit est utilisé à d'autres usages que ceux pour lesquels il est conçu. Parallèlement, le client s'engage à accepter nos conditions générales de marché de fournitures dans leur totalité, et plus particulièrement la garantie et clause limitative et exonératoire de responsabilité. Ce document correspond à des secrets commerciaux et industriels qui sont la propriété de Tec Industries Service et, constituant un élément valorisé de son actif, ne saurait être communiqué à des tiers en vertu de la loi du 11 juillet 1979.