

iBiotec®

**ALTERNATIVE SOLVENTS - CMR SUBSTITUTION
Eco-SOLVENTS**

Datasheet - Last update: 3/14/2025

**COMPACT POLYURETHANES
METHYLENE CHLORIDE
SUBSTITUTION SOLVENT**

RISK 0

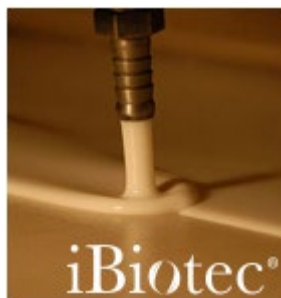
100 % SAFE

**for rinsing flow heads
and mixing chambers
in low-pressure injection**

CONSUMPTION DIVIDED BY 10

iBiotec®

FAST CLEAN PU 110



0 % COV



- High saturation rate, remains effective even when heavily loaded with elastomer, reusable several times.
- Recommended for all compact PU resins, including TDI, MTI, PPDI and new NDI fast-setting generations, on rim injected resins regardless of mixture distribution pressures, process times and TECAM GEL times.
- Usable on PU skin foam

Vegetable-based agrochemical fluid

No danger pictograms (CLP GHS)

No release of hot steam

Non-flammable

Reduces the emissions of organic vapours to 0%.

(Solvent Management Plan – EU Directives IED - IPPC)

OECD biodegradable

Storage without retention (Labour Code– ICPE)

OIW (Ordinary Industrial Waste) class

Exceptional operating cost

Low volatility, reduces solvent consumption by up to 10 times compared to dichloromethane.

MODE OF USE ON COMPACT POLYURETHANE DISPENSING MACHINE

Washing cycle after polyurethane flow:

- Air blowing air for 10 seconds
- **FAST CLEAN PU 110** injection for 3/5 seconds
- Air blowing air for 30 seconds

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

The lost casting called "waste casting" is carried out for several reasons; eliminate residues in the chamber, avoid air bubbles, be able to mix again polyols and isocyanates, possibly dyes, homogeneously.

During the washing cycle, the mixing chamber can be positioned above a drum equipped with a funnel to collect the **FAST CLEAN PU 110** effluent, and this can be filtered (6/10th millimetre metal filter); the mixture can also be decanted for 24 hours.

FAST CLEAN PU 110 can thus be reused up to 4 times in a row (depending on the polyurethanes).

FAST CLEAN PU 110 can also soak clean compact polyurethane residues or polymerised foam, even with a short Pot Life.

Creation of double glazing joints:

Spatulas are cleaned by simple dipping and paint guns by circulating.

Precautions for use:

Store in a temperate (frost resistant) environment before use.

FAST CLEAN PU 110 is compatible with PTFE seals (tests at 20°C, 80°C and 100°C) and silicone seals.

Avoid use on Neoprene, Buna, Nitrile, Butyl or Viton seals.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES	STANDARDS	VALUES	UNITS
Appearance	Visual	Clear	-
Colour	Visual	Yellow	-
Odour	Olfactory	Without	-
Density at 25°C	NF EN ISO 12185	975	kg/m ³
Refractive index	ISO 5661	1,4480	-
Freezing point	ISO 3016	-4	°C
Solubility in water	-	partial	%
Kinematic viscosity at 40°C	NF EN 3104	3.0	mm ² /s
Acid value	EN 14104	<1	mg(KOH)/g
Iodine value	NF EN 14111	0	gl ₂ /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 rate	-	>6	hours
Surface tension at 20°C	ISO 6295	32.0	Dynes/cm

Copper blade corrosion 100h at 40°C	ISO 2160	1a	Rating
Aniline point	ISO 2977	nm	°C
FIRE SAFETY PROPERTIES			
PROPERTIES	STANDARDS	VALUES	UNITS
Flash point (vacuum)	NF EN 22719	95	°C
Self-ignition point	ASTM E 659	>270	°C
Lower explosive limit	NF EN 1839	2,6	% (by volume)
Upper explosive limit	NF EN 1839	28,5	% (by volume)
Content of explosive, oxidizing, flammable, highly or extremely flammable substances	CLP Regulation	0	%
TOXICOLOGICAL PROPERTIES			
PROPERTIES	STANDARDS	VALUES	UNITS
Anisidine value	NF ISO 6885	<6	-
Peroxide value	NF ISO 3960	<10	meq(O ₂)/kg
TOTOX (anisidine value + 2x peroxide value)	-	<26	-
CMR, irritating and corrosive substance content	CLP Regulation	0	%
Residual methanol content from transesterification	GC-MS	0	%
Emissions of hazardous, CMR, irritant, corrosive compounds at 100°C.	GC-MS	Without	%
ENVIRONMENTAL PROPERTIES			
PROPERTIES	STANDARDS	VALUES	UNITS
Water endangering	WGK Germany	1 Not water endangering	class
Primary biodegradability CEC 21 days at 25°C	L 33 T82	>80	%
Readily biodegradable OECD 301 A over 28 days Disappearance of the COD	ISO 7827	>80	%
Easy and ultimate biodegradability OECD 301 D over 28 days Biodegradation at 67 days	Modified MITI	>90	%

Precautions for use: in case of splitting and repackaging of this product, do not use metal packaging.

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

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Consulter la fiche de données de sécurité.

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