

iBiotec®

**MANUFACTURER OF TECHNICAL AEROSOLS AND PRODUCTS FOR INDUSTRY
PROCESSES - MRO - MAINTENANCE
ALTERNATIVE SOLVENTS 100% SAFE**

Fiche Technique – Édition du : 2025-06-02

iBiotec®

Solvétal®

HDB 600

**Vegetable oil
for concrete formwork release
SYNAD classification
100% pure vegetable**

Delayed or instant concrete release agent



ALL TYPES OF PANELS and FORMWORK

Rough, varnished and planed Bakelite-coated wood, plywood.

Steel and aluminium.

Plastics, ABS, PVC, Polyesters, Polyurethanes.

ALL TYPES OF CONCRETE

including architectural and self-placing concretes.

Compatible with all hydraulic binders,

adjuvants and additives

No bubbling, anti-powder additive.

For smooth facings.

Non-staining.

Repels dirt from panels.

Does not alter the adhesion of plaster, rendering or paint.

WIDE TEMPERATURE RANGE

Freezing point - 8°C

Fully resistant to temperature variations,
applicable from 0°C to 90°C.

Can be used on thermal panels during steam curing.

NO DANGER PICTOGRAM ZERO RISK 100% SAFE

Not dangerous to humans and the environment.

Solvent-free, volatile organic compound-free.

No danger pictograms.

No risk phrases.

No exposure limit values or time-weighted average
(ELV - TWA).

No risk of irritating, chapping or drying out the skin.

LOW CONSUMPTION

Absorbent formwork

1 L for 60 m²

Non-absorbent formwork

1 L for 80 m²

PHYSICAL AND CHEMICAL PROPERTIES

CLASSIFICATION : NON-POLAR AGRO-BASED FLUID

PROPERTIES	VALUES	UNITS
Appearance	Clear	-
Colour	Orange-yellow	-
Odour	Light, characteristic	-
Density at 25°C	0.894	kg/m ³
Freezing point	-20	°C
Solubility in water	0	%
Kinematic viscosity at 40°C	10.5	mm ² /s
Surface tension	32	Dynes/cm
Refractive index	1.4620	
Solvent power - Kauri Butanol index	>200	-
Acid value	<1	mg(KOH)/g
Iodine value	<120	gl ₂ /100g

Water content	< 0.2	%
FIRE SAFETY PROPERTIES		
PROPERTIES	VALUES	UNITS
Flash point (vacuum)	>170	°C
Self-ignition point	>250	°C
Lower explosive limit	Non-explosive	% (by volume)
Upper explosive limit	Non-explosive	% (by volume)
Content of explosive, oxidising, flammable, highly or extremely flammable substances	Total absence	%

TOXICOLOGICAL PROPERTIES

PROPERTIES	VALUES	UNITS
Anisidine value	<5	-
Peroxide value	<10	meq(O ₂)/kg
TOTOX (anisidine value + 2x peroxide value)	<25	-
CMR, irritating and corrosive substance content	Total absence	%
Residual methanol content from transesterification	0	%
Emissions of hazardous, CMR, irritant, corrosive compounds at 160°C.	0	%
Exposure limit value and time-weighted average (ELV and TWA)	Without	ppm

ENVIRONMENTAL PROPERTIES

PROPERTIES	VALUES	UNITS
Water endangering	1	class
Primary biodegradability CEC 21 days at 25°C	over 90	%
Easy biodegradability OECD 301 A over 28 days		
Disappearance of the DOC	over 80	%
Easy and ultimate biodegradability OECD 310 C over 28 days	over 90	%
Biodegradation at 67 days	100	%
Bioaccumulation n-octanol water partition coefficient	less than 3	log Kow
Vapour pressure at 20°C	<0.1	hPa
VOC (Volatile Organic Compounds) content	0	%
Solvent content	0	%
Environmentally hazardous substances content	Total absence	%
Content of compounds with a GWP	0	%
Content of compounds with an ODP	0	%
Carbon balance, life cycle analysis	1.55	Carbon Equivalent Kg

Warning: This formulation contains products of plant origin. Its color cannot be specified; It can vary greatly depending on the country of origin, the seasons, the cultivation method and the weather. A variation in color does not affect the quality or performance of the product for its use.

INSTRUCTIONS AND PRECAUTIONS FOR USE

SOLVETAL HDB 600 aids mould release by removing concrete/formwork adhesion.

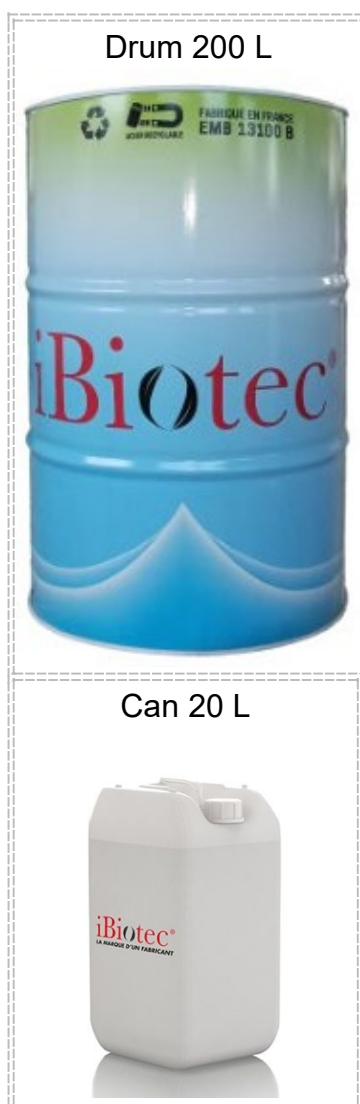
It has 2 actions

Physical action: creates a non-stick oily layer between the two substrates

Chemical action: saponification by the reaction of a strong base (the cement) with a fatty acid (the product).

To optimise results, apply to clean panels that are free from corrosion or residual traces of cement.
SOLVETAL HDB 600 does not create corrosion on steel panels.
New wooden formwork should be treated with slurry before first use, to remove any xylose on the surface.
Spray sparingly on clean surfaces (3 to 5 bar pressure) or use a cloth, brush or squeegee (ensure there is no excess).
Also apply to the edges of the panels.
Concreting can take place immediately after application of the concrete release agent.
Do not apply to frameworks.
Never use or mix with waste oil or diesel fuel, which are extremely dangerous to users (H351 Carcinogenicity cat. 2)

PRESENTATION



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

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 lequel 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.