



TECHNICAL DATA SHEET



BIOTANK

EPOXY FINISHING
Two component

Edition December 07

- SOLVENT FREE EPOXY « FOOD GRADE »
- FOR WATER TANKS, SILOS, STOCK OF FOODSTUFFS,
- APPLICABLE BY ROLLER, AIRLESS .

FEATURES

High-build solventless epoxy coating. Low viscosity, inert, abrasion resistant, safe for contact with drinking water and dry flowable foodstuffs such as cereals, starches, flours, fresh or dried fruits, dehydrated milk, sugars, dry yeast, and frozen and deep-frozen food.

The properties of the coating are not altered by UV radiation, although the visual appearance may be affected.

The user is responsible for ensuring that the stored foodstuffs are not affected by the coating.

RECOMMENDED USES

Maintenance and renovation of water reservoirs.

Protection of inner walls in silos, tanks, cisterns and hoppers storing or transporting dry flowable foodstuffs.

Coating composition complies with the recommendations of JORF brochure 1227 and European Council Resolution AP 96-5 Synoptic document 9 April 2001.

Health Compliancy certificate: 04 MAT LY 064.

SPECIFICATION DATA

COATING TYPE : Free solvent epoxy

COLOR : White

GLOSS : Gloss

COMPONENT : two component

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COMPONENT RATIO :

- Weight : 100 Base / 23 Hardener
- Volume : 100 Base / 40 Hardener

INDUCTION TIME (at 20°C) : None

POT LIFE (at 20°C) : 1 hour 30

DENSITY AT 23°C : 1,51g/cm³

VOLUME SOLIDS : 100 % according to ISO 3233 – 7 days at 20°C

VOC : without solvent

TEMPERATURE RESISTANCE : 100°C maxi 50°C in immersion

THEORETICAL SPREADING RATE :

3,3 Sq.m/L for 300 dry microns

RECOMMENDED FILM THICKNESS PER COAT :

Dry : 200 to 400 microns

Wet : 200 to 400 microns

DRY TIME TO RECOAT (at 10°C - 50 to 60 % HR) :

Minimum : 36 hours

Maximum : 6 days

able to be used after : 14 days

DRY TIME TO RECOAT (at 15°C - 50 to 60 % HR) :

Minimum : 30 hours

Maximum : 4 days

able to be used after : 10 days

DRY TIME TO RECOAT (at 20°C - 50 to 60 % HR) :

Minimum : 24 hours

Maximum : 48 hours

able to be used after : 7 days

DRY TIME TO RECOAT (at 30°C - 50 to 60 % HR) :

Minimum : 12 hours

Maximum : 24 hours

able to be used after : 5 days

SURFACE PREPARATION

All surfaces must be free of grease, dust, dry spray, moisture.

Sheet: all sheet work must be completed before starting the surface preparation. Welds must be deburred and sharp angles ground down. Eliminate traces of oil and grease, alkaline deposits and soluble salts. Strip using an abrasive (as per ISO 8501.1-1988) to Sa 2.5 roughness BN 10a of Rugotest N°3 (Ra 12.5µm). Carefully remove all dust using a vacuum cleaner.

Aluminium : Directly on primer EPOXY PRIMER EP 211 after recommended dry time to recoat. Contact us

Composite : On sanding surfaces or rough surfaces of delamination fibre reinforcement. (possibility on polyester and vinyl ester with alimentary requirements and perfectly polymerized and free solvent)

For all other type of coatings, consult our technical department.

MIXING AND THINNING

To feed the pump properly, the product should be catalyzed between 15 and 25°C.

Use a mechanical stirrer to slowly incorporate the hardener to the colored component. Scrape the walls of both containers clean. Agitate the mixture for a few minutes without frothing. Feed into the spraying equipment.

For correct spraying and a film density of approximately 150-200 microns, use a warmer to obtain a product temperature at the nozzle of about 30°C. Room temperature and substrate temperature must be 10 to 30°C. Surfaces must be free of condensation.

Before mixing the components, mix carefully the base portion first to obtain a smooth, homogeneous condition. After mixing the base portion, add the hardener slowly with continued agitation. After adding the hardener, continue to mix slowly.

APPLICATIONS

APPLICATION METHOD		THINNING	TIP SIZES	PRESSURE
BRUSH	YES (spot finishing)	Do not dilute		
ROLLER	YES (spot finishing)	Do not dilute		
SPRAY GUN	NO			
AIRLESS SPRAY	YES	For rinsing only	0,021 to 0,023 mm (30 to 60°)	depending on pressure loss

CONDITIONS FOR APPLICATION :

Optimum : 15 to 25 °C for 50 to 70 % HR

Limite : 10 to 30°C for 30 à 80 % HR

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The substrate temperature must be at least 3°C above the dew point to avoid any condensation - consult the conversion table available at Map Yachting.

VISCOSITY : thick product

PRECAUTIONS AND SHELF LIFE

See the material safety data sheet and product label for complete safety and precaution requirements

PACKAGING : KIT of 5 or 15 Liters in order

CLASS ONU : 1263

SHELF LIFE : 24 months in original unopened cans at + 10 and + 25 °C away from humidity
12 months in tropical climate

FLASH POINT : > 61°C

LABEL : Base = F : Flammable N : Dangerous for the environment Hardener = Xi : Harmful



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