

# EPOXYGUARD 455

**EPOXYDIC COATING WITHOUT VOLATILE ELEMENT**  
**Can be applied with high thickness with AIRLESS**  
**with 100 to 300 microns per coat.**

**UNDERCOAT**  
**Two component**

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## FEATURES

"High quality" protective coating for metal and confined concrete structures exposed to a caustic and abrasive environments, buried or immersed in fresh or salt water.

- Very good bonding, very hard film.
- Satin glossy finish.
- Excellent resistance to chemical agents.  
(Please consult our technical department).
- Coating properties ,except of the color, are not affected by sunlight.

### CERTIFICATE :

- LROP Trappes qualification trials: Test report n°29 299–34447.1
- Fire classification: M1 on all support M0 :  
LNE - n°B110438 - CEMAT/1

## RECOMMENDED USES

- Finishing protection under the waterline for all type of boats. (see our recommended systems)
- Osmosis treatment , protection of composite and CP in immersion.
- Tunnel walls and ceilings,
- Port installations,
- Interior of water reservoirs, fuel tanks, etc.
- Collection tanks,
- Sewage treatment stations, etc.

Compatible with EPOXY PRIMER EP 211 and UNDERCOAT EP 213 or 215 HB

In immersion the recommended film thickness is 250 to 600 microns depending on the type of surface.

## SPECIFICATION DATA

**COATING TYPE** : undercoat or finishing epoxy

**COLOR** : White (other colors, contact us)

**GLOSS** : Gloss/Semi-gloss

**COMPONENT** : Two component

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### COMPONENT RATIO :

- Weight : 100 base / 25 Hardener
- Volume : 100 Base / 38,8 Hardener

**INDUCTION TIME** (at 20°C) : None

**POT LIFE** (at 20°C) : 30 minutes for 15 L

**THINNER** : EP N° 17 (cleaning – do not dilute)

**DENSITY AT 23°C** : 1,5 +0,05g/cm3

**VOLUME SOLIDS** : 100 % according to ISO 3233-7

**VOC** : without volatile element

### THEORETICAL SPREADING RATE :

9,9 à 3,3 Sq.m / L for 100 to 300 dry microns

### RECOMMENDED FILM THICKNESS PER COAT :

Dry : 100 to 300 microns  
Wet : 100 to 300 microns

### DRY TIME :

(at 20°C - 40 to 60 % HR for 200 dry microns) :  
Dustfree: 4 hours  
To handle: 12 hours

### DRY TIME TO RECOAT (at 20°C - 40 to 60 % HR) :

Minimum : 15 hours  
Maximum : by itself : 5 days  
by EP 213 or 215 : 48 hours min., if more, sanding

**MAXIMUM TEMPERATURE RESISTANCE** : 100°C

## SURFACE PREPARATION

**Steel:** Degrease, then abrasive blasting to grade Sa 2,5 (as per ISO 8501-1988) with an «average G» profile roughness (as per NF EN ISO 8503-2). ), Ra between 10 and 13 microns.

**Concrete:** clean, dry and neutralised, with a certain degree of roughness and not affected by damp rising by capillary. Bloom and all loose particles must be eliminated by abrasive blasting, rubbing down or brushing.

In the case of a protection of steel in immersion, it is advised to apply **EPOXYGUARD 455** on primer EPOXY PRIMER EP 211

**EPOXYGUARD 455** is compatible with undercoats EP 213 HB, EP 215 HB.

Old surfaces and maintenance, or for all other type of coating, contact our technical departement.

## MIXING AND THINNING

Do not diluate.

Use THINNER EP N° 17 to clean and rinse materials.

Mixing ratio :72 for 28 in volume and 80 for 20 in weight. Respect scrupulously ratio.

Before mixing the components, mix carefully the base portion first during 10 minutes 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	Only spot-finishing	NO		
ROLLER	Only spot-finishing	NO		
SPRAY GUN	NO	NO		
AIRLESS SPRAY 60/1	YES	NO	Flexible 1/4 – 20 m maxi	150 to 200 BARS

### CONDITIONS FOR APPLICATION :

Optimum : 20 to 25 °C for 50 to 70 % HR

Limit : 7°C minimum for 30 to 80 % HR

**When spraying, the product should be at a temperature between 15 and 30°C**

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 : NC**

## PRECAUTIONS AND SHELF LIFE

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

**PACKAGING :** KIT 5 or 15 Liters

**CLASS ONU :** 1263

**SHELF LIFE :** 12 months in original unopened cans at + 10 and + 25 °C away from humidity - 9 months in tropical climate

**FLASH POINT:** >61°C

**LABEL :** Base = Xi : irritant N : Dangerous for the environment

Hardener = C : Corrosive



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