

# FERROTHANE

High Solids Polyurethane



## DEFINITION

Surface tolerant polyurethane coating, applicable in thick films. FERROTHANE can be used as MONOLAYER or as TOPCOAT for epoxy systems.

## INTENDED USES

For metal structures exposed to an aggressive environment, such as:

- Bridges,
- Storage tanks, containers,
- Materials and frameworks of the chemical industries,
- Machine tools, specialized equipments, etc ...

## PRINCIPAL CHARACTERISTICS

Applicable on:

- Old coats in good condition
- Steel prepared Sa 2 1/2
- Steel already coated, having been selectively stripped with Ultra High Pressure water.

Allows thick layers up to 220 µm to be applied with an airless spray gun.

Presents excellent retention of appearance.

High filling power.

Over 1500 colours possible with our "Industry" tinting machine system.

## CERTIFICATIONS / APPROVALS

ACQPA : Brand ACQPA 33151

Is used in the following certified systems :

C3ANV1482, C3ANV1521, C4ANV474, C4ANV1481, C4ANV1520,  
C3AMV1482, C3ANV1521, C4AMV474, C4AMV1481, C4AMV1520,  
C3ZNV1132 and C4ZNV1133.

## TECHNICAL DATA

Gloss level	: Satin
Colours	: according to RAL/AFNOR colour model, contact us for
Number of components	: 2
Mix ratio, by weight	: 90/10
Mix ratio, by volume	: 87/13
Specific gravity	: 1,36 +/- 0,05 g/cm³
Solids volume	: 58,0 +/- 3%
Solids weight	: 73,0 +/-2%
Typical thickness (dry)	: 100 µm
Typical thickness (wet)	: 170 µm
Theoretical spreading rate	: 5,8 m²/l for 100 µm dry



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### INSTRUCTIONS

#### SURFACE PREPARATION

##### MAINTENANCE

HP washing followed by scraping / brushing of corroded areas to P3 degree according to ISO 8501-2: 1994.

Carry out touch-up on these areas with a suitable primer to reconstruct the thicknesses (see chapter COMPATIBILITY).

##### NEW WORK

C1 and C2 atmospheres: Abrasive blasting to Sa 2½ according to ISO 8501-1: 2007.

From C3 atmosphere : Application on compatible epoxy primer.

#### APPLICATION

**Mixing :** The product is sold as pre-prepared kits. For the hardener portion in the base coat container and mix without creating air bubbles. The minimal recommended temperature of the mixture must be at least 15°C, or a thinner may be required in order to achieve adequate viscosity. Please note that an excessive amount of thinner may induce a dripping phenomenon.

**Induction time :** 15 mn

**Working pot life :**

Temperature	Time
10°C	6 hours
20°C	3 hours
30°C	1 hour 30

**Substrate temperature :** Between +5°C and +40°C and at least 3°C higher than the dew point in order to eliminate any risk of condensation.

**Weather conditions :** The temperature should be between 5°C and 40°C  
The relative humidity should be between 0% and 85%

**Technical note :** Do not keep the spraying equipment loaded for longer than the pot-life of the product. Rinse the equipment with the 62-162 thinner and clean thoroughly with a cleaning solvent. The container containing the prepared and unused mixture must not be hermetically sealed. In case of prolonged interrupted use, it may be preferable to prepare a new kit.

#### AIRLESS SPRAY

Thinner : 62-162

Dilution : 5 to 15 %

Nozzle : 0.017-0.021

Pressure at nozzle : 150-200 bars

Report pump Min : 45/1

#### AIR SPRAY

Thinner : 62-162

Dilution : 0 to 20 %

Nozzle : depends on the equipment used.

Pressure at nozzle : 3-5 bars

Thickness achievable after several passes

#### BRUSH

Thinner : 62-162

Dilution : 0 to 20 %

#### ROLLER

Thinner : 62-162

Dilution : 0 to 20 %

**CLEANING SOLVENT :** 62-162

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### CURING TIME

Temperature	Drying time		Overcoating interval	
	Touch dry	Hard dry	Minimum	Maximum
10°C	10 hours	16 hours	48 hours	Non critical.
20°C	6 hours	8 hours	24 hours	Non critical.
30°C	3 hours 30	5 hours	12 hours	Non critical.

### COMPATIBILITY

Previous coat(s)      Itself, EPODUX PRIMER 61-134 v01, EPODUX HV PC, EPODUX BR 100, FERROCOTE, CHIMICOTE, CHIMICOTE ST, PRIMODUX H, MONOCOCHÉ SR 75, MONOPRIMER 58-86, ANTIROUILLE MAT 55-17,...

Subsequent coat(s)      Itself, POLYSTRIA v01.

### REGULATORY SPECIFICATIONS

AFNOR RATING      AFNOR NFT 36 005 rating Family I Class 6a  
VOC (Directive      EU limit value for this product (cat. A/j) : 500 g/l (2010)  
2004/42/EC)      This product contains max 500 g/l VOC

### HEALTH AND SAFETY

Flash point      BASE : between 23°C and 55°C  
HARDENER : between 23°C and 55°C

Transport and labelling      Refer to the safety data sheet established as per applicable European directives

Shelf life      2 years in original full, sealed packaging. Store in a cool, ventilated place.

Precautions      Refer to the current material safety data sheet

### PACKAGING

KIT	BASE	HARDENER
4L	3.5 L	0.5 L
15L	13.1 L	1.9 L