EPINOX BOSMAN® 77

CHARACTERISTICS

Epoxy primer, MIO pigmented, thixotropic, high solid, cured at low temperatures (down to -10ºC), two component. Semi-gloss, flexible coating, tough and resistant to mechanical factors, also resistant to water, salt and alkali solutions, oil, fuel oil, diesel, motor gasoline and some organic solvents. Coating resistant to the elements occurring in the cathodic protection. Under the influence of the sun radiation, tint of the coating may change.

PRODUCT USE

For renovation of boats from the laminate in order to prevent the phenomenon of osmosis.
- The hull corrosion protection of steel and aluminum yachts.
- For independent film of the inside surfaces of tanks (eg, bilge).
- As an intermediate in paint systems epoxy or epoxy-polyurethane.

PROPERTIES

Density (approx.), g/cm^3	1,5
Flash point, °C	18
Typical dry film thickness, µm	100
Typical wet film thickness, µm	160
Theoretical coverage at 100µm, dm^3/m^2	0,16
Volume solids (about), % vol.	65
Recommended number of coats	1 - 4
Volatile Organic Compounds, g/dm^3	300

Given data may vary slightly for different colours as well as due to normal manufacturing tolerances.

COLOUR

250 red oxide 860 light grey

SURFACE PREPARATION

The degree of surface preparation depends on the type and operating conditions. Fill cavities in the substrate using epoxy putty first BOSMAN Wash the surface with water containing OLIVA CLEANER - should be dry, devoid of fat salt and dust. Steel and aluminum substrate should be primed with the paint ALU-STEEL PRIMER 2002 and wood – thinned WOOD PRIMER 12 .The surface of the laminate should be roughened with sandpaper does not exceed 1/3 of the gel coat.

PAINT PREPARATION

Stir thoroughly component I, mix with component II according to the following mixing proportions:

	by weight	by volume
component I	100	100
component II	12	20

Mix thoroughly components before use.
Priming porous surfaces after thinning with Thinner 564 (up to 20%).
Minimum temperature of the paint: 15°C.
Pot life in: 30°C - 1,5 h
23°C - 2,5 h
20°C - 3,5 h
10°C - 5 h

APPLICATION METHODS

Airless spray, brush. When using a brush it may be necessary to apply several layers to achieve recommended coating thickness.
Airless spray parameter:

Nozzle size	0,48 - 0,63 mm
Nozzle pressure	20 - 25 MPa

THINNING

Not required.
When necessary (for example – thickening product) use TEKNOSOLV 9506 or TEKNOSOLV 564 (see Technical Information).
For cleaning tools: TEKNOSOLV 9506 or TEKNOSOLV 564.

APPLICATION CONDITIONS

Application and curing conditions:

- minimum surface temperature: -5°C (surface frost- and ice-free) and at least 3°C higher than dew point,
- minimum temperature of paint itself +15°C,
- ambient temperature not lower than -10°C,
- relative air humidity below 95%,
- good ventilation.

Drying time (in 23°C):

dust dry - 2 h
touch dry - 6 h

Overcoating intervals:

temperature	20°C	10°C	5°C	0°C	-5°C
minimum	6h	7,5h	9h	14h	24h
maximum	unlimited*				

Given indications relates to the recommended coating thickness, drying in good ventilation conditions. Overcoating times may be different with a change of temperature, ventilation, number of layers and the thickness of the coating.

* It is a rule, that unlimited overcoating interval is for Epinox® 77. Due to higher sensitivity of topcoats to surface cleanness, overcoating time should be short. It is very important especially when applying non-epoxy systems or operating in aggressive environment.

Full cure:

temperature	20°C	10°C	5°C	0°C	-5°C
minimum	2 days	3 days	6 days	12 days	18 days

SUBSEQUENT COAT

EMAPUR MARINA topsides, part submarine UNIWIN OPTIMAL and ANTIFOULING VSE.

ADDITIONAL INFORMATION

Depending on application and type of construction, other thickness of a single layer can be assumed instead of recommended. Typical dry film thickness range using airless spray is from 80 to 200 µm. Changing the thickness of the coating changes the theoretical consumption, thickness, weight of dry coating, drying time, time of recoating and finishing work.
Single coating of dry film thickness 160 – 200 µm (wet film thickness 250 – 320 µm) can be used as a stand-alone protection of internal surfaces, for example for ship's holds.
In high corrosive environment it is recommended to prepare surface as good as possible and to apply successive layers of paint before full curing of previous layers to achieve best protection.
Please note that increasing degree of cleanliness of surface results exceeding of coating's durability.

SHELF LIFE

The storage stability is shown on the label. Store in cool place and in tightly closed can.

CAUTION!

During application and drying of the coating flammable and harmful substances are emitted. It is important not to inhale the fumes of the product and to avoid contact with the eyes and skin. Use only in well ventilated rooms. Detailed information about dangerous substances in the products and threats are included in the safety data sheet, which are available at the Customers' request.