

### TYPE

Oxidatively drying, acrylic modified epoxide ester in emulsion

### Neutralization agent

3.0 % triethylamine, as salt

### FORM OF DELIVERY (f.o.d.)

42 % in water (42WA)  
(containing also 9.7 % methoxy butanol)

### CONTENT OF FATTY ACIDS

approx. 38 % special fatty acids (as triglycerides)

### SPECIAL PROPERTIES

- Quick oxidative drying
- Excellent corrosion resistance
- High water stability
- Good re-coatability

### PRODUCT DATA

#### Determined per batch:

#### Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (10 1/s; 23 °C)	[mPa.s]	200 - 3000
--------------------------------------	---------	------------

#### pH-Value DIN ISO 976

pH-value (10 %)		8,5 - 10,0
--------------------	--	------------

#### Non-Volatile Matter DIN 55671

non-volatile matter (150 °C; 10 min)	[%]	40,5 - 43,5
---	-----	-------------

#### Not continually determined:

#### Colour / Appearance VLN 250

colour	beige -
appearance	coloured opaque

#### Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	40,5 - 43,5
---	-----	-------------

#### Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	1,03
-------------------------------	---------	------

#### Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
-------------	------	-------

Sole binder for air and forced drying anticorrosive primers and industrial coatings.

### DILUTABILITY

Duroxyn VAX 6127w/42WA in supplied form may indefinitely be diluted with water. Therefore, no organic solvent is necessary for the paint production.

The viscosity as supplied may decrease during storage. An addition of 0.1 - 0.5 % Triethylamine will adjust the viscosity.

### SUGGESTED USES

Duroxyn VAX 6127w/42WA being a typical epoxy ester resin, has high corrosion resistance. Primary application areas are air-drying anticorrosive primers. Due to the excellent pigment wetting, gloss topcoats can also be formulated.

Good adhesion on metal and flexibility are evident in both oxidatively drying and bake enamels.

### PROCESSING

#### Pigmentation

In order to increase corrosion resistance it is recommended to use suitable anticorrosive pigments. A few examples are modified phosphate hydrate pigments, for example Heucophos ZMP (from Fa. Heubach), or calcium-barium-phosphoric silicates, for example Halox BW 191 (from Lawreco Industries).

Attritors have proved best for dispersion of alkyd resin emulsions. A mill base temperature of 50 °C should not be exceeded.

### Additives

The co-grinding of a suitable wetting and antissettling agent, like Additol XL 270, may prevent the settling and a combination of Additol XW 372 with Additol VXW 4909 may prevent the foam formation.

An addition of Additol XL 297 is recommended against skin formation in the container.

### Driers

An addition of water emulsifiable siccatives is recommendable. 2 - 3 % Additol VXW 4940 (Co-, Ba-, Zr-combination drier), calculated on solid binder, are diluted with water 1 : 1 and thus jointly dispersed.

### STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 days.

Synthetic resins containing water may freeze and/or separate at temperatures below 0 °C. However, this will not cause any damage to the product, but it will be necessary for extended heat treatment at 40 - 50 °C with continuous stirring for regeneration. It is therefore recommended to store in a "keep from freezing" environment.

**Lowest storage temperature: - 5 °C**

### DISTINGUISHING FEATURES

Duroxyn VAX 6127w/42WA is epoxy modified and has better corrosion protection than other oxidatively drying alkyd resin emulsions, e. g. Resydrol AZ 436w.