

### TYPE

Water dilutable, heat-crosslinking Phenol/Epoxyde-pre-condensate

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

52 % in water (52WA)  
(containing also approx. 2 % n-butanol)

### USES

PHENODUR® VPW 1942 is a formulated phenolic/epoxyde system, intended as sole-binder for the interior and exterior coating of metallic packaging materials and for corrosion resistant industrial stoving systems. PHENODUR® VPW 1942 shows very low emission of cleavage products and contains practically no free phenol.

### PRODUCT DATA

#### Determined per batch:

#### Dynamic Viscosity (Ubbelohde) DIN 53177

dynamic viscosity	[mPa.s]	100 - 1000
(23 °C)		

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

non-volatile matter	[%]	50 - 54
analogue DIN EN ISO 3251		
(1 h; 135 °C; 2 g; n-butanol)		

#### Not continually determined:

#### pH-Value DIN ISO 976

pH-value		7,0
approx.		

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

density	[g/cm <sup>3</sup> ]	1,12
approx.		
(20 °C)		

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

flash point	[°C]	> 100
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### DILUTABILITY

PHENODUR® VPW 1942 is unlimited dilutable with deionized water. Water, in combination with organic solvents e. g. butyl glycol is suitable too.

### COMPATIBILITY

PHENODUR® VPW 1942 is designed as sole-binder, the compatibility with other resins is limited. Combinations with other polymer dispersions and water-dilutable melamine resins are possible, storage stability and compatibility have to be tested in advance. Such additions of other resins might influence the rheological behaviour of PHENODUR® VPW 1942 greatly.

### PROPERTIES AND USES

For spray applications, PHENODUR® VPW 1942 has to be diluted with water in the usual ways. For applications on roller coaters, the viscosity should be increased by means of thickening agents and/or organic solvents like hexylglycol. In both cases, additions of organic solvents like hexylglycol improve flow and surface wetting and reduce the tendency of a quick physical drying.

The usual stoving cycle is 12 min at 200°C, "shock-curing" at PMT's of approx. 300 °C is possible.

The cured films are at a thickness of approx. 5 µm exhibit a golden colour and very good adhesion, corrosion protection, flexibility and solvent resistance.

### STORAGE

At temperatures up to 25°C storage stability packed in original containers amounts standard to 730 days.

PHENODUR® VPW 1942 should not be kept at temperatures below 5°C. Frozen product is unsuitable for further use.

The expiration date may be extended and COA updated after QC testing of retained samples, only for material in allnex possession.

### SAFETY AND HANDLING

Please consult the Safety Data Sheet (SDS) for safety, health, and environmental data available from allnex.

### DISTINGUISHING FEATURES

PHENODUR® VPW 1942 is, for the time being, unique in our product range.