

Product Information

ALBODUR[®] 921 VP

What is the resin's nature?

Solvent-free, hard, very hydrophobic, OH-functional polyol based on renewable resources (castor oil).

Technical data:

Solids content:	100%
OH-content:	6.62%
Viscosity:	700 - 1,000 mPas
Shore A / D*:	98 / 65
Elongation at break*:	53%

*crosslinked with MDI-based polyisocyanate

Why has the resin been developed?

As a hard resin with very good workability for highly chemical resistant coatings, like industrial flooring and tank & pipe coatings.

What is the suggested field of application?

- Industrial floorings
- Tank & pipe coatings
- Pigment pastes
- Corrosion protection

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Suitable raw materials

Defoamers:

Worlee Add 636 (Worlee Chemie) Perenol E 8 (BASF)
Byk A 530 (BYK Chemie) Byk A 501 (BYK Chemie)
Tego Foamex 944 (Evonik Tego Chemie)

Substrate wetting agents:

Perenol F 40 (BASF)

Dispersants:

Disperbyk 161 (BYK Chemie) Disperbyk 180 (BYK Chemie)
Texaphor P 63 (BASF)

Extender:

Silica Flour W 6 (Quarzwерke) Baryt Flour EWO (Sachtleben)

Anti-settling agents:

Sylsiamont 350 (Silysiamont) Byk 410 (BYK Chemie)
Albothix 85-32 (Alberdingk Boley)

Water scavenger:

Albolith MS C 350 (Alberdingk Boley)

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Formulation Proposal

FP 921-1 general industrial flooring

Pos.	Raw Materials	Amount	Supplier
1	ALBODUR[®] 921 VP	41.85	Alberdingk Boley
2	Perenol E 8	0.50	BASF
3	Texaphor P 63	1.00	BASF
4	ALBERDINGK[®] Albolith MS C 350	6.65	Alberdingk Boley
5	Silica flour W 6	45.00	Quarzwerke
6	Heubach G 7610	3.00	Heubach
7	Sylsya 350	2.00	Sylsiamont
Total		100.00	

Crosslinking

We recommend a crosslinking ratio of NCO:OH of 110% or 100.00 parts of the a.m. formulation require 25.44 parts of SUPRASEC[®] 2496 (Huntsman).

Mechanical Properties

Crosslinked with SUPRASEC[®] 2496:

	After 24h at RT	After 72h at 50°C
Shore A hardness	94	> 100
Shore D hardness	55	75
Elongation at break	55%	19%