

NEUKAPOL 1002

Branched Polyester/-ether
Universal Binder

altropol

Main features

- hydrophobic
- low-viscous
- 100 % solid content
- solvent-free

Applications

- 2-C PUR coatings
- adhesives
- casting compounds
- corrosion protection

Product properties (approx. values)

			NEUKAPOL 1002
Colour			yellow
OHV	mg KOH/g	DIN 53240	205 ± 15
Viscosity (25 °C - Brookfield RVT)	mPa·s	DIN EN ISO 2555	750 ± 250
Water content	%	DIN EN ISO 8534	< 0.2
Acid number	mg KOH/g	DIN EN ISO 2114	< 3

Properties of the mixture [94.50 p.b.w. NEUKAPOL 1002 + 5 p.b.w. Zeolith L Paste + 0.5 p.b.w. Defoamer NEUKAPOL PN 9079 + 52.67 p.b.w. Suprasec 2496 (Huntsman); approx. values after 14 days of storage at RT]

Pot life (RT) (1000 g)	minutes	ASTM D 2471-88	45
Hardness	Shore D	DIN EN ISO 868	55
Tensile strength	MPa	DIN EN ISO 527	14
Elongation at break	%	DIN EN ISO 527	70
Flexural strength	MPa	DIN EN ISO 178	10
Glass transition temperature TG	°C	DIN 51005	50

RT = room temperature

Form of delivery

NEUKAPOL 1002 1 kg 25 kg 200 kg 1000 kg

Storage

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

Resin's properties

OH-functional polyol based on renewable resources (castor oil),
solvent-free, medium hardness, very hydrophobic

Reasons for development

- Universal resin
- Very good workability
- Wide range of applications
- Very good chemical resistance

Suggested field of application

- ✓ General industrial flooring
- ✓ Metal coatings
- ✓ Corrosion protection
- ✓ Tank & pipe coatings
- ✓ Adhesives

Suitable raw materials

Dispersants

Efka PU 4063 (BASF)
Disperbyk 2155 (BYK Chemie)

Disperbyk 2152 (BYK Chemie)
TegoDispers 652 (Tego Evonik)

Defoamer

Efka 2722 (BASF)
TegoAirex 944 (Tego Evonik)
BYK 066 (BYK Chemie)
BYK A 501 (BYK Chemie)

Efka SI 2008 (BASF)
Tego Airex 945 (Tego Evonik)
BYK A 530 (BYK Chemie)
Worlee Add 636 (Worlee Chemie)

Wetting and flow additives

Efka FL 3740 (BASF)
TegoGlide B 1484 (Tego Evonik)

BYK 333 (BYK Chemie)

Extenders

Baryt Flour EWO (Sachtleben)
Feldspar FS 900 L (Quarzwerke)
Blanc Roc Micro (Minerals Girona)

Albawhite 60 (Sachtleben)
Silica Flour W 6 (Quarzwerke)

Rheological additives

Sylsya 350 (Sylsiamont)
Efka RM 1900 (BASF)
Tixogel MP 250 (BYK Chemie)

BYK D 410 (BYK Chemie)
Cab-O-Sil TS 720 (Cabot Corp.)
Tixogel VZ (BYK Chemie)

Water scavenger

Zeolith L-Paste (altropol)

Finmasorb PR 430 (Finma Chemie)

Formulation Proposal

FP 1002 / 2 General Industrial Floor Coating

Pos.	Raw Material	Amount	Product	Supplier
1	NEUKAPOL 1002	42.60	polyol	altropol
2	ZEOLITHE-L-PASTE	6.65	molecular sieve	altropol
3	EFKA PU 4063	1.00	dispersing agent	BASF
4	Feldspar FS 900 L	45.75	extender	Quarzwerke
5	Heucosin Special G 6517 N	3.00	pigment	Heubach
6	Tixogel MP 250	0.50	anti-settling additive	Byk Chemie
7	Tego Airex 944	0.50	defoamer	Tego Evonik
Total		100.00		

Crosslinking

We recommend a x-linking ratio of NCO : OH of 110%, or 100.00 parts of the a.m. formulation require 24.70 parts of Suprasec 2496 (Huntsman).

Tinting

We recommend using the ALTROCOLOR PU 4500 series as pigment paste for easy tinting of the a.m. coating.

Mechanical Properties of a.m. coating crosslinked with Suprasec 2496 (approx. values)

			after 24h at RT	after 28 days at RT
Hardness	Shore A	DIN EN ISO 868	93	97
Hardness	Shore D	DIN EN ISO 868	50	75
Elongation at break	%	DIN EN ISO 527	58	20

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