

NEUKAPOL PN 9502

Branched Polyester/-ether
Very elastic resin

altropol

Main features

- hydrophobic
- low-viscous
- very low Tg
- 100 % solid content
- solventfree

Applications

- Crack-bridging membrane
- adhesives
- spray coatings

Product properties (approx. values)

			NEUKAPOL PN 9502
Colour			yellow
OH-value	mg KOH / g	DIN 53240	219 ± 15
Viscosity 25°C	mPa·s	Brookfield RVT	750 ± 250
Water content	%		< 0.2
Acid number	mg KOH / g	DIN EN ISO 2114	< 3

Properties of the mixture [94.50 p.b.w. NEUKAPOL PN 9502 + 5 p.b.w. NEUKADUR Zeolith L Paste + 0.5 p.b.w. Defoamer NEUKAPOL PN 9079 + 55.28 p.b.w. Suprasec 2496 (Huntsman); (approx. values after 14 days of storage at room temperature)]

Pot life	minutes	according to ASTM D 2471-88	65
Hardness	Shore D	DIN EN ISO 868	40
Tensile strength	MPa	DIN EN ISO 527	14
Elongation at break	%	DIN EN ISO 527	460
Flexural strength	MPa	DIN EN ISO 178	*
Tear propagation resistance	N/mm	DIN ISO 34	*
Impact strength**	KJ/m ²	DIN EN ISO 179	*
Glass transition temperature	°C	DIN EN ISO 16805	-30

* in process

** the material is tough-elastic, test specimens do not break!

Form of delivery

NEUKAPOL PN 9502 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.

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Resin's properties

OH-functional polyol based on renewable resources (castor oil), solvent-free, very elastic especially at low temperatures

Reasons for development

- Extremely good crack-bridging properties
- Very good workability
- Wide range of applications
- Very good chemical resistances

Suggested field of application

- ✓ Parking deck coatings
- ✓ Sport flooring
- ✓ Adhesives

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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)

Substrate wetting additive

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

BYK 333 (BYK Chemie)

Extender

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

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

Antisettling additive

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)

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Formulation Proposal

FP PN 9502 / 2 Car parking deck coating (interlayer)

Pos.	Raw Material	Amount	Product	Supplier
1	NEUKAPOL PN 9502	57.60	polyol	altropol
2	ZEOLITHE-L-PASTE	6.65	molecular sieve	altropol
3	EFKA PU 4063	1.00	dispersing agent	BASF
4	Baryt EWO	30.75	extender	Sachtleben Chemie
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 a.m. formulation require 46.74 parts of Suprasec 2021 (Huntsman).

Tinting:

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

Mechanical Properties (approx. values)

			after 24h at RT	after 28 days at RT
Hardness	Shore A	DIN EN ISO 868	75	87
Hardness	Shore D	DIN EN ISO 868	25	40
Elongation at break	%	DIN EN ISO 527	430	310

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