

# NEUKAPOL PN 9600

Branched Polyester/-ether  
Soft resin for outdoor application

# altropol

## Main features

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

## Applications

- balconies
- terraces
- shopping malls
- Rehab hospitals

## Product properties (approx. values)

			<b>NEUKAPOL PN 9600</b>
Colour			yellowish
OH-value	mg KOH/g	DIN 53240	300 ± 15
Viscosity (25 °C - Brookfield RVT)	mPa·s	DIN EN ISO 2555	1,500 ± 250
Water content	%	DIN EN ISO 8534	< 0.2
Acid number	mg KOH/g	DIN EN ISO 2114	< 3

**Properties of the mixture [94.40 p.b.w. NEUKAPOL PN 9600 + 5 p.b.w. NEUKADUR Zeolith L Paste + 0.5 p.b.w. Defoamer NEUKAPOL 9079 + 0.1 % Fomrez UL-28 + 98.17 p.b.w. Desmodur N 3900 (Covestro); (approx. values after 14 days of storage at room temperature)]**

Pot life	minutes	ASTM D 2471-88	30
Hardness	Shore D	DIN EN ISO 868	40
Tensile strength	MPa	DIN EN ISO 527	15
Elongation at break	%	DIN EN ISO 527	90
Flexural strength	MPa	DIN EN ISO 178	*
Resistance to tear propagation	N/mm	ASTM D 624 B	*
Impact strength	kJ/m <sup>2</sup>	DIN EN ISO 179	*
Glass transition temperature TG	°C	DIN EN ISO 16805	*

\* work in progress

## Form of delivery

NEUKAPOL PN 9600                      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, very good compressive strength.

**Reasons for development**

- very good sound-damping properties
- comfort coatings
- very good workability
- wide range of applications
- very good chemical resistance

**Suggested field of application**

- ✓ balconies
- ✓ terraces
- ✓ shopping malls
- ✓ rehab hospitals

**Suitable raw materials**

**Dispersants**

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

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

**Defoamers**

Efka 2722 (BASF)  
Tego Airex 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)  
Tego Glide B 1484 (Tego Evonik)

BYK 333 (BYK Chemie)

**Extenders**

Baryt EWO (Sachtleben)  
Feldspat FS 900 L (Quarzwerke)  
Blanc Roc Ultra Micro (Minerals Girona)

Albawhite 60 (Sachtleben)  
Quarzmehl W 6 (Quarzwerke)

**Anti-settling additives**

Sylsolia 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 scavengers**

Zeolith L-Paste (altropol)

Finmasorb PR 430 (Finma Chemie)

**Catalysts**

Fomrez UL 28 (Momentive)  
Dabco 33 LV (Air Products)

Fomrez UL-6 (Momentive)  
Coscat 83 (Vertellus)

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**Formulation Proposal**

SPF PN 9600 / 2                      Balcony Coating

Pos.	Raw material	Amount	Product	Supplier
1	NEUKAPOL PN 9600	52.00	polyol	altropol
2	ZEOLITHE-L-PASTE	7.50	molecular sieve	altropol
3	EFKA PU 4063	1.00	dispersant	BASF
4	Blanc Roc Ultra Micro	35.00	extender	Quarzwerke
5	Heucosin Special G 6517 N	3.00	pigment	Heubach
6	Fomrez UL-28 (10% in castor oil)	0.30	catalyst	Momentive
7	Tixogel MP 250	0.30	anti-settling additive	BYK Chemie
8	Tego Airex 944	0.90	defoamer	Tego Evonik
<b>Total</b>		<b>100.00</b>		

**Crosslinking:**

We recommend a x-linking ratio of NCO : OH of 110%, or 100.00 parts of the a. m. formulation require 55.43 parts of Desmodur N 3900 (Covestro).

**Tinting:**

We recommend using 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	68	85
Hardness	Shore D	DIN EN ISO 868	30	45
Elongation at break	%	DIN EN ISO 527	140	90

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