

NEUKAPOL 1566

Branched Polyester/-ether
preliminary data sheet

altropol

Main features

- hydrophobic
- low-viscous
- cristal clear applications
- 100 % solid content
- solventfree

Applications

- Balcony
- Terrace
- Shopping mall
- Rehab hospital

Product properties

			NEUKAPOL 1566
Colour			transparent - bluish
OH-value	mg KOH / g	DIN 53240	310 ± 15
Viscosity 25°C	mPas	Brookfield RVT	1000 ± 300
Water content	%		< 0.2
Acid number	mg KOH / g	DIN EN ISO 2114	< 3

Properties of the mixutre [94.40 p.b.w. NEUKPOL 1566 + 5 p.b.w. Zeolith Paste + 0.5 p.b.w. Defoamer NEUKAPOL PN 9079 +0,1% Fomrez UL-28 + 105.00 p.b.w. Desmodur N 3900 (Covestro); (approx. values after 14 days of storage at room temperature)]

Pot life	minutes	according to ASTM D 2471-88	35
Hardness	Shore D	DIN EN ISO 868	55
Tensile strength	MPa	DIN EN ISO 527	*
Elongation at break	%	DIN EN ISO 527	*
Flexural strength	MPa	DIN 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	*

* in process

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

Form of delivery

Neukapol 1566 on request

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.

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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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

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 scavenger

Zeolith L-Paste (**altropol**)

Finmasorb PR 430 (Finma Chemie)

Catalyst

Fomrez UL 28 (Momentive)

Dabco 33 LV (Air Products)

Fomrez UL-6 (Momentive)

Coscat 83 (Vertellus)

Starting Point Formulation

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	dispersing agent	BASF
4	Blanc Roc Ultra Micro	35.00	extender	Quarzwерke
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
Total		100.00		

Crosslinking

We recommend a x-linking ratio of NCO : OH of 110% or 100.00 parts of a.m. formulation require 55.43 parts of Tolonate LV 2 (Vencorex).

Tinting

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

Mechanical Properties of a.m. coating crosslinked with Tolonate LV 2 (Vencorex).

			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

*= all mentioned values are approximately values without any kind of guarantee

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