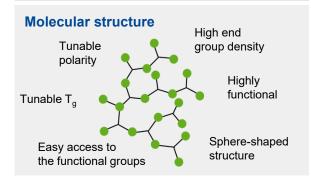
Performance enhancement for high solid 2K PU with new hyperbranched polyesters

Basonol® HPE 1170 B & Basonol® HPE 1265 B

Performance highlights

- Faster curing speed
- Early block resistance, early handling, faster sandability etc.
- Increased pot life
- Improved final hardness
- Improved reflow behavior
- Improved chemical resistance
- Excellent weather resistance
- Minimal impact on VOC



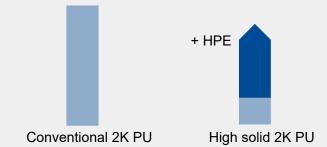
Usage

- Cobinder with acrylics and polyesters (10-30%)
- Main focus on high solid 2K PU systems
- Conventional to medium solid 2K PU (pot life)
- 1K amino resin systems (chemical resistance, ...)

Supply specification

Polyol	Solid [%]	OH-number [mg KOH/g]	Tg [°C]
Basonol® HPE 1170 B	70	275	19
Basonol® HPE 1265 B	65	180	38

Increasing high solid 2K PU coatings performance by using HPE as co-binder



Exemplary applications







Availability

HPE 1170 B: fully commercialized HPE 1265 B: samples available



28.11.2018

Weathering & light stable high performance polyol Sovermol® 780

Performance highlights

- S.780 is a analytical countertyp to Desmophen VPLS 2249/1
- Excellent chemical resistance
- Good hydrophobicity
- Hardness similar to epoxy systems
- High content of renewable raw materials
- Excellent hydrolysis stability
- High T_g-polyol
- Functionality ~ 3

Key technical data

Appearance: Yellow, low viscosity fluid
 Viscosity: 2000 - 2600 mPa·s (20 °C)

Hydroxyl number: 485 - 535

Acid number: < 2.0

■ Water content < 0.2 %

Labeling: No labeling

Exemplary applications



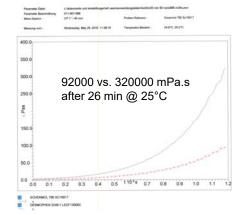




- Lower water absorption (hydrolysis stable)
- Significantly less surface defects under critical curing conditions based on hydrophobic performance
- Lower reactivity

Availability

Samples & commercial quantities available



■ ■ BASF
We create chemistry

28.11.2018

Guiding formulation Sovermol 780 + HPE, Matt

Industry	
Industrial Coating - 2K PU High Solid	
Index 1, Binder – Hardener ratio	
Pos. Trade name	Parts
1. Sovermol 780	5,6
2. Basonol® HPE 1170B	8,0
3. Capa 3031	1,3
4. EFKA® FL 3741	0,3
5. EFKA® SI 2040	0,2
6. EFKA® FA 4672	3,4
7. TiO2 – Sachtleben RD 3	29,5
8. Wollastonite 10 ES	29,5
9. Sidishield C 25	4,0
10. Acematt 3600	2,0
11. n-butyl acetate	16,2
Subtotal	100,0
12. Basonat® HI 2000 NG	16,8
13. 2-butoxy-ethyl acetate	1,0
Adjusting to different visco	sities with n-bac/Xylol (2/3)

flow time DIN 4 Cup	amount of solvent	solid content	voc
~ 50 sec	3,30 g	81,0%	301,38 g/L



Guiding formulation Sovermol 780 + HPE, White

Industry

Industrial Coating - 2K PU High Solid

Index 1, Binder - Hardener ratio

Pos.	Trade name	Parts
1.	Basonol® HPE 1170B	26.77
2.	Sovermol® 780	18.74
3.	Efka® FA 4609	2.81
4.	Efka® PB 2744	1.87
5.	Efka® SL 3777	2.95
6.	Aktifit® PF 111	4.69
7.	Kronos® 2310	42.17
	Component A	100.00
8.	Basonat® HI 2000 NG	48.27

Adjusting to different viscosities with n-bac/Xylol (2/3)

flow t		amount of solvent	solid content	voc
~ 50	sec	18.20 g	83.07%	229.37 g/L



Guiding formulation Sovermol 780 + HPE, Clearcoat

Industry

Industrial Coating - 2K PU High Solid

Index 1, Binder - Hardener ratio

Pos.	Trade name	Parts
1.	Basonol® HPE 1170B	58.5
2.	Sovermol® 780	40.9
3.	Efka® SL 3030	0.6
	Component A	100.0
4.	Basonat® HI 2000 NG	101.2

Adjusting to different viscosities with n-bac/Xylol (2/3)

voc	solid content	amount of solvent	flow time DIN 4 Cup
236.04 g/L	76.5 %	38.10 g	~ 50 sec





We create chemistry