Basis



В

20.6

20.6

13.5

6.2

3.3

3.4

1.7

30.7

14.0

5.4

2.9

0.3

114.0

---

### Industrial coating 2K Soft feel lacquer without matting agent based on urea methanal condensate Desmophen 670//1150//1652 and Desmodur N 75

Polyurethane PCO-0017e-SF Guide Formulation of Covestro А Desmophen 670 75 % in butyl acetate:xylene (1) 21.5 **Component A** Setathane D 1150 75 % in butyl acetate:xylene (2) 21.5 Desmophen 1652 75 % in butyl acetate:xylene (1) ---Inorganic pigment 15.5 SILLITIN Z 86 PURISS )\* (3) 7.4 Matting agent (4) 3.9 Bentone 38 10 % swelling )\*\* 3.9 2.0 Dibutyl-tin-dilaurate 1 % in butyl acetate Butyl acetate:xylene 1:1 24.3 **Component B** Desmodur N 75 BA 22.5 (1) Total parts by weight 122.5 )\* or SILLITIN Z 89 PURISS for bright color formulations 10 % Bentone swelling: )\*\* Bentone 38 10.0 (5) Anti-Terra-U 5.0 (6) Solvesso 85.0

Composition Binder 40.3 36.3 in % (approx.) Solvent 37.5 43.2 Pigment 12.7 11.8 Filler 6.0 Matting agent 3.2 Additives 0.3

prepare by stirring (15 m/s, 10 min)



# GUIDE FORMULATION || page 2 of 3



				PCO-00	PCO-0017e-SF	
				А	В	
Technical Data	NCO / OH			1.0	1.0	
	Solids content		%	60	55	
	Viscosity (DIN 53211, 4 mr	m flow cup, 23°C)	S	22	22	
	Flow time doubled after	1. ,	min	150	150	
	Pot life, 23°C (closed conta	ainer)	h	8	8	
	Gloss degree (Gardner 60°	°, on glass)	%	10	10	
	Touch-dry after (80 µm dry	film thickness, 80°C)	min	30	30	
	Flash point (DIN 53213)		°C	26	26	
Mixing	The formulation can be pre	pared with a sand-, bea	d- or triple roll	mill		
Processing	The formulations are suitable for air pressure spray application (2-4 bar, 0.8-2.0 mm nozzle). 2K equipment is recommended for on-line application. To obtain a pleasant soft feel on hard thermoplastics, the dry film thickness should be approx. 80 $\mu$ m.					
Pre-treatment of substrate	In most cases, no special pre-treatment is necessary. Any dirt (e. g. dust, hand sweat) can be removed with ethanol or white spirit.					
1-coat application	<ul> <li>The finishes adhere well on the following plastics:</li> <li><sup>®</sup> Baydur (rigid PU foam)</li> <li><sup>®</sup> Bayflex (semi-rigid PU foam)</li> <li>Noryl GTX (PPO/PA)</li> <li>PVC</li> </ul>					
2-coat application	on) 3C-PS (2K fo					
	The primers are very flexible and adhere well on many plastics. They also provide a barrier against attack by the solvents in the soft-feel finish and thereby prevent stress cracking.					
	A 2-coat system including p intercoat adhesion on the fe Bayblend® (ABS Durethan® (PA) Makroblend® (PC/F Makrolon® (PC) Novodur® (ABS Pocan® (PBT Polystyrene (PS)	ollowing thermoplastics: /PC) PBTP) )	033C-PS has	s good substrat	e and	





# PCO-0017e-SF A B

#### Film characteristics:

Soft-feel finishes take away the cold hard look of rigid plastic moldings and give them the feel of flexible PU foam or expanded flexible PVC. They also have sound-absorbing properties.

Heat resistance:	min. 96 h at 130°C		
<b>Solvent resistance:</b> (premium-grand petrol, xylene, butyl acetate, MP 1 min application with saturated wadding	A, methanol) very good		
Cold Check Test: (+50°C/-22°C/+20°C/25 cycles)	no cracking		
Immersion in water: (6 months)	no blistering		
Humidity test: DIN 50017, 1000 h	no blistering		
Abrasion test: (Taber-Abraser/CS 10/500 rev.)	< 5 mg weight loss		

#### Suppliers

- (1) Covestro
- (2) Allnex
- (3) HOFFMANN MINERAL
- (4) Evonik Industries, z. B. Acematt OK 412 oder Acematt TS 100
- (5) Elementis
- (6) Byk Chemie

Our applications engineering advice and the information contained in this formulation are based on experience and are made to the best of our knowledge and belief, they must be regarded however as non-binding advice without guarantee. Working and employment conditions over which we have no control exclude any damage claim arising from the use of our data and recommendations. Furthermore we cannot assume any responsibility for patent infringements, which might result from the use of our information.

DE-86633 Neuburg (Donau)
 info@hoffmann-mineral.com

