[0053] The following examples were performed and are provided to illustrate the invention, and should not be interpreted as limiting the scope of the invention.

[0054] **Comparative Examples 1 and 2:** in a 3L glass reactor equipped with a stirrer and a nitrogen inflow. The solvent (part 1) is poured in the reactor and a nitrogen blanket is applied (10ln/h). The stirrer is set at 80RPM. The temperature is set to 115°C. The monomer mix I is prepared by mixing the monomers, of part 3 and the initiator. Once the temperature inside the reactor is reached, a shot of (part 2) is added and the nitrogen flow is stopped. Afterwards the monomer mix I is added into the reactor over a period of 4 hours. At the end of the addition, the booster composed of the initiator and the solvent (part 5) is added for 1 hour at 115°C. Then, the reactor is kept at 115°C for an hour. The reactor is eventually cooled down below 80°C.

[0055] **Procedure for coating formulation:** The resin is first diluted with the solvent (of the synthesis) to a viscosity between 300 and 400 cPs. Then the catalyst is added to the diluted resin at a level of 0.05 to 3 % active. Afterwards, the formulated resin is applied on a panel at 100um wet with a Mayer rod and left to dry at 23±2°C and 50±5%

[0056] Table 1: resins characteristics and coating performance

	Comparative Ex 1	Comparative Ex 2
Part 1		
Butyl Acetate	391.9	393.4
Part 2		
TBPiN	3.9	4.4
Part 3 (monomer mix I)		
VeoVa 9	734.8	___
VeoVa 10	___	___
VeoVa EH	___	___
VAM	___	___
Methyl methacrylate	___	591.2
Butyl acrylate	___	147.8
vinyltrimethoxysilane	___	___
methacrylopropyltrimethoxysilane	244.9	246.4
TBPiN	15.6	16.2
Part 4 (monomer mix II)		
VeoVa 9	___	___
VeoVa 10	___	___
TBPiN	___	___
Part 5		
TBPiN	39.2	39.0
Butyl acetate	53.9	53.6
Solids (%)	70.0	70.0
Viscosity (cPs)	2 200	40 000
Residual monomers (ppm)	200.0	7 200
Mw (g/mol) [DIN Standard 55672]	25 500	80 000
Mn (g/mol) [DIN Standard 55672]	10 000	20 500
pot-life (months)	limited	0
Hardness after 24h drying (s)	120	NT **
MEK double rub after 7days drying (number of cycles) [ASTM D4752]	111	NT **
MEK double rub after 30days drying (number of cycles) [ASTM D4752]	NT **	NT **

* BD = Below detection ** NT = Not tested