

# Solmer<sup>®</sup>

for UV Curable Technology

(주) 솔텍



SOLTECH LTD.

## ALIPHATIC URETHANE ACRYLATE •

Products	Monomer % by weight	Viscosity (60° C, mPa.s)	Color Gardner	Funct.	Feature, key point
SU 520		3,000	2 max	10	Extream fast cure and hardness Good chemical resistance
SU 5039	15 DPHA	7,000	2 max	9	Extream fast cure and hardness Good chemical resistance
SU 5020	26 Butyl acetate	1,800	3 max	6	Tack free after evaporating Good transparency
SU 5030	31 Butyl acetate	3,500 at 25° C	3 max	6	Good transparency and flexibility
SU 522		1,500	2 max	6	Fast cure Chemical resistance
SU 522B		1,500	2 max	6	Good exterior durability Chemical resistance
SU 571		1,050	2 max	6	Fast cure Chemical resistance
SU 5260		2,500	2 max	3	PVC flooring coating Good toughness
SU 564	15 HDDA	45,000 at 25° C	2 max	3	Good reactivity Good abrasion resistance
SU 574	13 HDDA	2,000	2 max	3	Good flexibility and toughness good surface curing
SU 574B	14 HDDA	1,800	2 max	3	Good flexibility and toughness Good surface curing
SU 588	10 EOEDEA	10,000 at 65° C	2 max	3	Good flexibility Toughness
SU 594	22 HDDA	7,500	2 max	3	Good exterior durability Good toughness
SU 5225	30 IBXA	40,000	3 max	2	Excellent adhesion on plastics(PET) Good flexibility and excellent elongation
SU 5347		900	2 max	2	Good adhesion on glass Improved flexibility
SU 5521		19,500	5 max	2	Excellent elongation
SU 5656		65,000	2 max	2	Excellent elongation Primer for vaccum metalization
SU 511		17,000	2 max	2	Good flexibility Toughness
SU 512	15 TPGDA	4,000	2 max	2	Good flexibility and toughness Excellent durability
SU 514	10 HDDA	8,500	3 max	2	High flexibility Good adhesion

Products	Monomer % by weight	Viscosity [60° C, mPa.s]	Color Gardner	Funct.	Feature, key point
SU 519	30 HPMA	15,000 at 25° C	2 max	2	Good adhesion to glass, metal and plastics Excellent abrasion & scratch resistance
SU 530		45,000 at 25° C	2 max	2	Very high flexibility
SU 542		750	2 max	2	Good flexibility Toughness
SU 570		3,500	2 max	2	Good flexibility and adhesion
SU 584	12 HDDA	2,000	2 max	2	Good exterior durability Good adhesion

## AROMATIC URETHANE ACRYLATE •

Products	Monomer % by weight	Viscosity [60° C, mPa.s]	Color Gardner	Funct.	Feature, key point
SU 720		28,500 at 25° C	2 max	6	Fast cure and high hardness Solvent resistance
SU 7206	30 TMPTA	72,000 at 25° C	2 max	3	Good adhesion and toughness
SU 710		5,000	2 max	2	Good flexibility and adhesion

## WATER-SOLUBLE ACRYLATE •

Products	Monomer % by weight	Viscosity [60° C, mPa.s]	Color Gardner	Funct.	Feature, key point
SU 550	5 WATER	6,000	5 max	3	Water soluble type
SU 550A	10 WATER	10,000 at 25° C	5 max	3	Water soluble type and improved flexibility
SU 560	8 PEG400DA	10,000	5 max	3	Water soluble type

## EPOXY ACRYLATE

Products	Monomer % by weight	Viscosity (60° C, mPa.s)	Color Gardner	acid value mg KOH/g	Feature, key point
SE 1500		1,500	6 max	5 max	Excellent flexibility and good adhesion Low viscosity
SE 1605		1,000	5 max	1 max	Good adhesion
SE 1636	35 TMPTA	25,000 at 25° C	5 max	5 max	Excellent heat resistance Good adhesion to metal
SE 1656	50 TMPTA	45,000 at 25° C	7 max	5 max	Good heat resistance Good adhesion to metal
SE 1700		3,500	6 max	2 max	Fast cure, excellent solvent resistance Good pigment wetting properties
SE 1701		7,500	6 max	5 max	Flexibility Good adhesion to plastics
SE 1702		5,000	6 max	5 max	Good lithographic behaviour Good pigment wetting propertise
SE 1703		3,250	6 max	5 max	Very good flexibility and high reactivity Good adhesion to plastics
SE 120		3,000	2 max	4 max	Standard epoxy acrylate
SE 145	25 TPGDA	25,000 at 25° C	3 max	2 max	Good pigment wetting and fast cure Excellent solvent and good water resistance
SE 146	25 TPGDA	11,000 at 25° C	2 max	2 max	Fast cure and high gloss Excellent solvent resistance

## FULL ACRYLATE

Products	Monomer % by weight	Viscosity (60° C, mPa.s)	Color Gardner	acid value mg KOH/g	Feature, key point
SA 345	23 TPGDA 23 HDDA	23,000 at 25° C	5 max		Good intercoat adhesion Adhesion to difficult substrates
SA 3710	60 HDDA	24,000 at 25° C	1 max		Improve adhesion Good exterior durability
SA 3723		11,000 at 25° C	3 max		Excellent adhesion to difficult substrate

## POLYESTER ACRYLATE

Products	Monomer % by weight	Viscosity (60° C, mPa.s)	Color Gardner	acid value mg KOH/g	Feature, key point
SP 220	40 TPGDA	40,000 at 25° C	2 max	35	Good adhesion to metal and plastic Recommended for laminating adhesion
SP 224	30 HDDA	75,000 at 25° C	2 max	42	Good adhesion to metal and plastic Recommended for laminating adhesion
SP 236	40 TMPTA	2,600	5 max	25	Good pigment wetting Good adhesion to metals and plastic
SP 236L	40 TMPTA	1,500	5 max	25	Good pigment wetting Low viscosity than SP 236
SP 238	40 GPTA	1,500	5 max	25	Good pigment wetting Good adhesion to metal and plastic
SP 260	5 TMPTA	10,000 at 25° C	5 max	20	Good adhesion to plastics and paper Recommend for laminating adhesion
SP 270		1,500 at 25° C	3 max	200	Excellent adhesion to metal Acid functionality
SP 271		14,000 at 25° C	3 max	180	Low shrinkage Acid functionality
SP 277		6,500 at 25° C	3 max	200	Excellent adhesion to metal Low odor and shrinkage
SP 280		3,000 at 25° C	2 max		Low viscosity High reactivity
SP 281		100 at 25° C	2 max		High reactivity combined with Good diluting power and low viscosity
SP 283		1,500 at 25° C	3 max		Low viscosity High reactivity

## ADDITIVES

Products	Monomer % by weight	Viscosity (60° C, mPa.s)	Color Gardner	acid value mg KOH/g	Feature, key point
SZ 9137		170 at 25° C	2 max		Good slip, wetting and flow
SZ 9166		2,700 at 25° C	5 max	270	Methacrylate modified acidic Adhesion promoter
SZ 9167		3,000 at 25° C	5 max	270	Acrylate modified acidic adhesion promoter
SZ 115		20 at 25° C	3 max		Increase the cure speed and flexibility
SZ 225		800 at 25° C	4 max		Good adhesion to plastic and pigment wettig Increase the cure speed
SZ 300		2,250	3 max		No residual odor after curing Non yellowing & excellent weatherability

### UV coatings for plastics

Product	PC	PS	PP	PMMA	PVC	ABS	PS	PET
SU 514	●				●	●	●	
SU 566	●				●	●		
SU 584	●				●	●	●	●
SU 594	●				●	●		
SU 5280	●				●			
SU 5228	●				●	●		
SU 5295	●				●	●	●	●
PSU 537				●				●
SU 5656	●		●		●	●		
SE 1500					●	●		
SE 1701					●	●		
SE 1703		●			●	●		
SP 236		●	●			●	●	
SP 238		●	●			●	●	
SP 260	●				●	●		●
SA 345		●	●			●		
SA 3710	●				●	●	●	
SZ 225		●					●	
SZ 9166		●					●	
SZ 9167		●					●	

### Mobile phone plastic coatings

Product	Pencil hardness	RCA	Flexibility	Yellowing	Adhesion
SU 564	●●	●●	●●●●	●●●●	●●●
SU 570	●	●	●●●●	●●●●	●
SU 584	●●	●●	●●●●	●●●●	●●●
SU 5228	●●●●	●●●	●	●●●	●●
SU 571	●●●●	●●●●	●●	●●●	●●
SU 5260	●●●	●●●	●●●	●●●●	●●●
SU 5020	●●●●	●●●●	●●	●●●●	●●●
SU 5030	●●●●	●●●●	●●	●●●●	●●●

### Vacuum metallization coatings

Product	Pencil hardness	Flexibility	Chemical resistance	Adhesion	Main application and suggested usage	
					Primer	Topcoat
SU 720	●●●●	●	●●●●	●●	15 - 20%	-
SU 530	●	●●●●	●	●●	5 - 10%	-
SU 514	●●	●●●●	●●●	●●●●	10 - 15%	-
SU 5228	●●●●	●	●●●●	●●	15 - 20%	5 - 10%
SE 1701	●●●	●●●	●●●●	●●●	15 - 20%	-
SU 7206	●●●	●●●	●●●	●●●	25 - 35%	5 - 10%
SE 1636	●●●	●●	●●●●	●●●	15 - 20%	15 - 20%
SE 1656	●●●	●●	●●●●	●●●	15 - 20%	15 - 20%
SU 5656	●	●●●●	●	●●●●	15 - 20%	-
SU 5225	●	●●●●	●	●●●●	15 - 20%	-
SP 260	●●●	●	●●●●	●●●	-	15 - 20%

### Parquet and flooring coatings

Product	Primer	Sealer	Topcoat	Deck
SU 519	●			
SU 520			●	
SU 564		●	●	●
SU 571			●	
SU 574		●		
SU 584		●		
SU 594		●		
SU 5039			●	
SU 5260			●	
SU 710		●		●
SU 7206		●		
SU 5228			●	
SU 550	●			
SU 550A	●			
SU 560	●			
SW 5200	●			
SE 120		●	●	
SE 140		●		
SE 146		●	●	
SE 1500	●	●		
SE 1700	●	●		
SE 1701			●	
SE 1703	●			
SP 260		●	●	
SP 263		●	●	

**Product for UV offset inks**

Product	Pigment wetting	Trick 350 m/min	Mixing balance	ink water	Reactivity	Adhesion	Rubber compatibility
SU 720	••	••	•	••	•••	••	•••
SP 236	•	•	••	••	••	••••	•••
SP 238	•	•	••	••	••	••••	•••
SE 1700	••	•	•••	•	•••••	•	•••
SE 1701	•••	•	•••	•••	•••	•••	••••
SE 1702	•••	••	••	•••	•••	•	••••
SE 140	••	•	•••	•	•••••	•	•••
SE 1703	•••	•••	••	•••	••	•••	•••

**Products for flexographic inks**

Product	Pigment wetting	Reactivity	Adhesion plastic/metal	Flow
SP 280	••	••••	••	••
SP 281	••	••••	••	•••
SP 283	••	••••	••	••
SE 1700	•••	••••	•	•••
SE 1701	•••	•••	•••	•••
SE 1703	•••	••••	•••	•••
SZ 225	••	••••	••••	•••
SU 542	••	•••	••••	•••
SZ 115	••	••••	••••	•••

**Products for screen inks**

Product	Pigment wetting	Reactivity	Adhesion Plastic/metal	Solvent resistance	Flexibility
SU 710	••	••	•••••	••	••••
SU 720	••	•••••	•••	•••••	•
SU 530	•	•	•••••	•	•••••
SU 514	•••	••	•••••	•	••••
SU 564	•••	•••	•••	••••	•••
SU 584	•••	•••	••••	•••	•••
SU 594	•••	••••	••••	••••	••••
SP 224	•	•	•••••	••	••
SP 220	•	•	•••••	••	••
SE 144	•	••••	•	•••••	••
SA 345	••	••	•••••	••	•••
SU 5218	••	•••••	•••	•••••	•
SE 1701	•••	•••	•••	••••	•••
SE 1703	•••	••	•••	••••	•••
SU 571	••	•••••	•••	•••••	•
SZ 225	••	••••	••••	•••	••
SU 7206	•••	•••	•••	••••	•••
SU 574	•••	•••	•••	••••	•••
SP 236	••••	••	••••	•	••

**Products for overprint varnishes**

Product	Reactivity	Substrate wetting	Adhesion plastic/metal	Solvent resistance
SP 280	••••	•••	••	••
SP 281	••••	•••	••	••
SP 283	••••	•••	••	•••
SU 710	••	••	•••••	••
SU 720	•••••	•••	•••	•••••
SU 564	•••	•••	•••	••••
SU 584	••	•••	••••	••••
SP 224	•	••	•••••	••••
SE 144	••••	••	•	•••••
SA 345	••	•••	•••••	••
SE 1701	•••••	••	•••	•••••
SU 571	•••••	••	•••	•••••
SE 140	•••••	••	•	•••••
SZ 225	••••	•••	••••	•••