

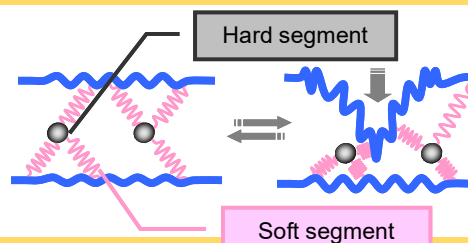
## TRE-18

TRE-18 is a highly elastic acrylic urethane resin.

When subjected to external force, the membrane becomes dented, and the dent will return to its original shape over time. It is possible to suppress bleeding from the base material.

### Feature

1. Rubber elasticity.
2. It is a high- $\gamma$ -crosslinking and has excellent toughness.
3. Excellent weather resistance.
4. It exhibits self-repairing properties at room temperature.
5. Bleed resistance



### Application

Self-repairing paints (coating materials for protective films such as paint protection films), soft-feel paints

### Property (Typical)

Item	Condition	TRE-18
Component	—	Polyester modified acrylic polyol
Non-volatile content(%)	105°C × 1h	60
Viscosity(mPa·s, 25°C)	BM type	2300
Hydroxyl Value(mgKOH/g)	Calculated value	60
Appearance	Visual	Pale yellow liquid
Solvent	—	Butyl acetate

### Performance

Item		Condition	Result	
Main Agent	Product name	—	TRE-18	
Hardener	Product name	—	EXCELHARDENER X-06	
	Component	—	Polyisocyanate resin	
	NCO content(%)	—	22.9	
	Solid content(%)	—	100	
Mixing ratio		NCO/OH=1.1	100/21	
Repair Time	23°C	Brass Brush(0.2kg)	Within 3 minutes	
	5°C		Within 3 hours	
Stretch ratio	Film	Dumbbell No. 2 Test speed 200mm/min	50%	
Tensile strength			22MPa	
Pencil hardness	Abrasion scratch	750g	2B	
Adhesion	ABS	JIS K5600-5-6 Grid adhesion test (1mm × 1mm/grid, 100 grids in total) 100 is perfect.	100/100	100/100
	PC		100/100	100/100
	TPU		100/100	100/100
	PET		100/100	100/100

Curing condition: 70°C × 2h      Drying thickness: 30μm

EXCELHARDENER X-06: Made by Asia Industry Co.,Ltd.

### Others

When handling this product, please read the Safety Data Sheet (SDS) and strictly follow the usage instructions and precautions.

This content may be changed without notice.