

# TopClear Systems

## TopClear / Gelcoat / Finish Coat

**The TopClear Systems is** a shiny, translucent or colored, resistant to UV, and a high build (100% solid) product.  
Brushable or sprayable

### Multiple media

- Wood
- Composites
- Glass, carbon Fabrics etc....
- Paper, cardboard, leather
- Foam (PVC, PU, PS....)
- Metal
- Stone, marble, concrete .....
- Others – please consult us

### Application

- Finishing for cosmetic parts
- Glass / hot coat
- Varnishing
- Surfacing
- Laminating of small parts (tuning, scenery...)
- Carbon " look " (against pins)
- Light binding, non-structural bonding
- Surf board repairs , fixing fin box
- Table Top
- Clear gel coat

## Physical characteristics

### Resins SR TopClear 105x

	SR TopClear 1056	SR TopClear 1054
Reactivity	Fast	Slow
Nature	Resin	
Density @ 20 °C	1.10	
Color	Clear	
Color Gardner	< 2	
Refractive index @ 25 °C	1.4745	1.4749
Dry extract ( % )	100	
Viscosity ( ± 20 % mPa.s)		
@ 15 °C	2 500	2 800
@ 20 °C	1 500	1 600
@ 25 °C	900	970
@ 30 °C	600	620
@ 40 °C	250	280

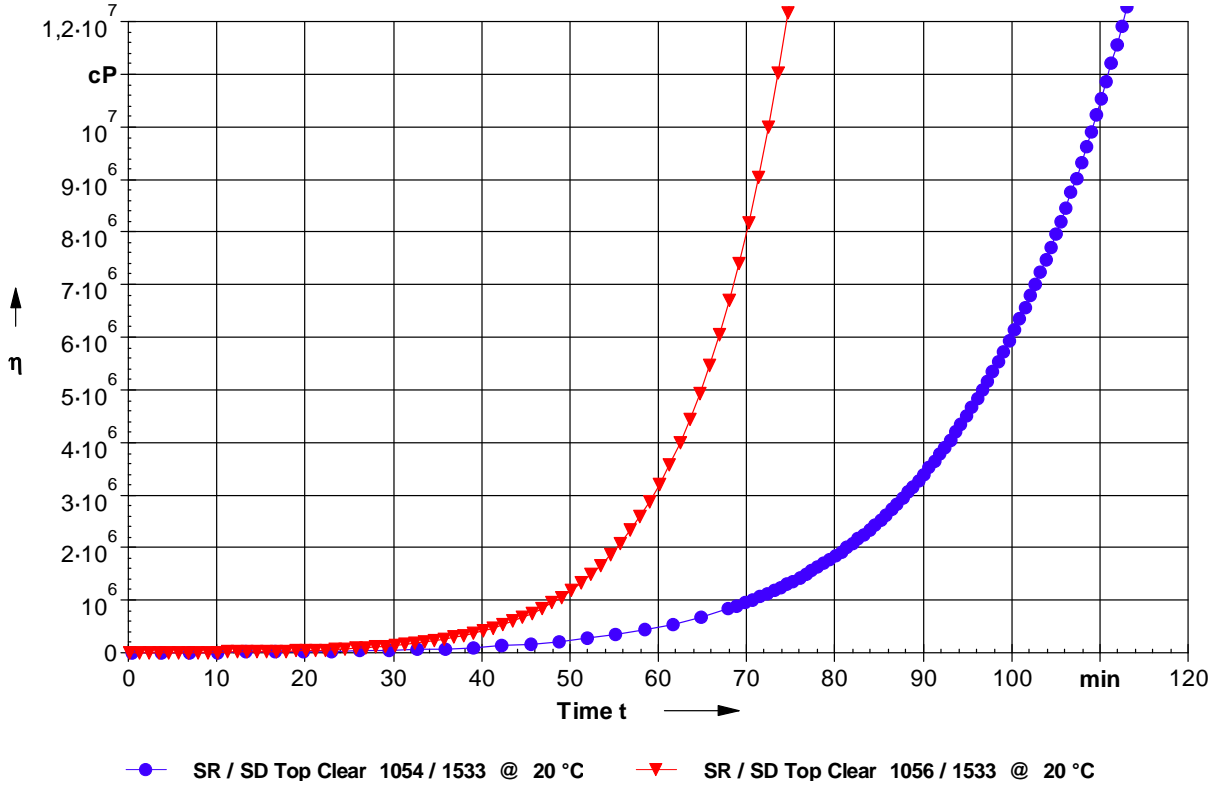
### Hardener SD TopClear 1533

Nature	Hardener
Color	Clear
Color Gardner	< 2
Refractive index @ 25 °C	1.5002
Dry extract ( % )	100
Density @ 20 °C	1.15
Viscosity ( ± 20 % mPa..s)	
@ 15 °C	1 500
@ 20 °C	1 000
@ 25 °C	700
@ 30 °C	500
@ 40 °C	300

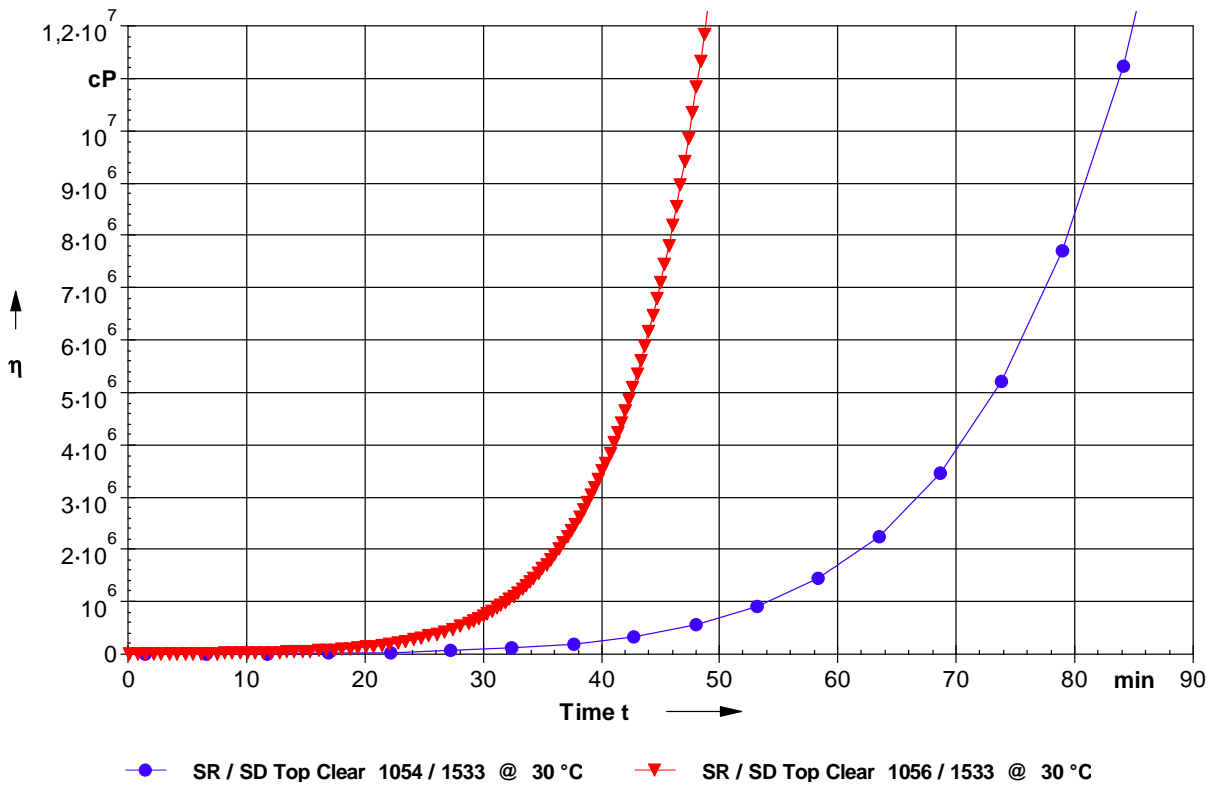
### Mix SR TopClear 105x / SD TopClear 1533

	SR TopClear 1056 / SD TopClear1533	SR TopClear 1054 / SD TopClear 1533
Mix ratio by weight	<b>100 / 66</b>	
Mix ratio by volume	<b>100 / 62</b>	
Initial Viscosity ( ± 20 mPa.s)		
@ 20 °C	2 050	2 800
@ 30 °C	1 700	1 200
Glass transition Tg onset:by DSC (°C)		
Room temperature 24 hrs	60	60
Room temperature + 16 hrs @ 40 °C	75	66
Room temperature + 16 hrs @ 60 °C	85	80

**Evolution of the viscosity on 1 mm film  
@ 20°C**



**@ 30 °C**



**Surface Preparation**

The surface must be dry and clean, sanded with a 120 grain, with no dust or substance that could interfere with the adhesion, like for example: waxes, oil, grease or surfactant.  
In case of lamination or a gelcoat application, please consult us in regards to the release agent treatment

**Use and application**

Application Temperature: minimum 15 °C  
Please shake before use.  
Prepare the right quantity needed for the application

Mix well both components together quickly respecting the ratios.  
Application time with no thinner: 5mn

**Thinning / Solvent :**

Thinner: SICOMIN Thinner Abu  
Sprayable application: dilute from 15% to 30 % straight after mixing the resin and hardener  
Nozzle diameter: 1.5 to 2 mm

**Drying time @ 20 °C**

	<b>SR TopClear 1056 / SD TopClear 1533</b>	<b>SR TopClear 1054 SD TopClear 1533</b>
Dust free :	20 min	40 min
Dry to the touch:	25 min	1 hr
Sanding when dry:	2 hrs 30'	3 hrs
Second coat:		
Minimum	30 mn	60 mn
Maximum without sanding	48 hrs	48 hrs

**Kits Availables**

<b>SR TopClear 1054 Or SR TopClear 1056</b>	<b>SD TopClear 1533</b>
1 kg	0.66 kg
4.5 kg	2.97 kg
15.15 kg	10 kg
151 kg	200 kg

<b>SR TopClear 1054 Blanc</b>	<b>SD TopClear 1533</b>
1.22 kg	0.66 kg
5.5 kg	2.97 kg
18.52 kg	10 kg
185 kg	200 kg

*Others please consult us*

## Coloring

The TopClear system is compatible (10% maximum) with our coloring system "Color Paste"

Available RAL:

1023 –	Traffic Yellow
2011 -	Orange
3001 –	Red security
3020 -	Red signal
5015 –	Sky Blue
6002 –	Leaf Green
7045 -	Telegris
9005 –	Jet Black
9010 –	Pure White

Other Colours please consult us

## Safety precautions

Avoid contact with water and solvents before and after mixing

A small quantity of water can accelerate the polymerization process

A high humidity content can significantly reduce the use time and lower the clearness of the product (bubbles)

Please use protective items like gloves, masks, protective eyewear

Please see Material Safety Data Sheets

## Storage

After use, please close back tightly the packaging.

Storage temperature between 5 °C and 25 °C

12 months in its original closed packaging, after that even if the use by date is over, it does not mean that the product cannot be used. Please call us.

## Cleaning your work tools

Clean quickly your tools after use with the SICOMIN Thinner Abu

Before polymerization wipe off and eliminate any traces with a solvent

After polymerisation: mechanical cleaning

## Chemical resistance

Good resistance to acids and weak bases.

Limited resistance to organical solvents

Others, please consult us

**Tests carried out on samples of pure resin**

Measures undertaken according to the following norms:

Glass transition DSC : ISO 11357-2 : 1999 -5°C to 180°C under nitrogen gaz  
Tg1 or Onset : 1st point at 20 °C/mn Tg1 maximum or Onset : second passage  
Glass transition DTMA: ISO 11357-1 - TG onset G' Temperature ramp 0°C to 180 °C @ 2°C/min  
ASTM D4065 - TG peak G''

Physical tests according standard ::

Gardner color: NF EN ISO 4630 Visual method  
Refractive index : NF ISO 280  
Viscosity: NF EN ISO 3219 Rheometer 50 mm, shear 10s<sup>-1</sup>  
Density: NF EN ISO 2811-1 Pyknometer  
Gel time : Cross G' G'' / rheometer CP50 - Shear rate 10 s<sup>-1</sup>  
GreenCarbon content: ASTM D6866 or XP CEN/TS 16640 Avril 2014

**LEGAL NOTES :**

The information given in writing or verbally, in the context of our technical assistance and our trials, do not engage our responsibility. They are given in good faith based on SICOMIN's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with SICOMIN's recommendations. So, we advise the users of SICOMIN products, to check by some practical trials they are suitable for the envisaged processes and applications. The customer's storage, the use, the implementation and the transformation of the supplied products, are not under our control and your responsibility only will respond for it.

SICOMIN reserves the right to change the properties of its products. All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data and tolerance may vary due to circumstances beyond our control.

If our responsibility should nevertheless be involved, it would be, for all the damages, limited to the value of the goods supplied by us and implement by the customer. We guaranty the non-reproachable quality of our products, in the general context of sales and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.