

N0.	SERIES	CODE	SERIES	COLORS	SIZE	THICKNESS	DURABILITY
1	Holographic Chrome Vinyl	LCF	/	8	60 " x 60ft / 1520mm x 18m	100 Microns	/
2	Mirror Chrome Vinyl	GCF	/	13	60 " x 60ft / 1520mm x 18m	100 Microns	/
4	Rainbow Chrome Vinyl	RCF	/	4	52" x 60ft /1350mm x18m	110 Microns	/
5	Rainbow Chrome Vinyl	/	RCF04-T	1	52" x 66.6ft /1350mm x20m	110 Microns	/
6	Satin Chrome Vinyl	SCH	/	11	60 " x 60ft / 1520mm x 18m	160 Microns	/

SPECIFICATIONS

Finish	Mirror / Matte / Satin / Rainbow / Holographic Chrome
Film Type	High-grade polymeric calendared self-adhesive film
Protective Liner	PET Liner
Adhesive	Henkel solvent-based acrylic adhesive (Transparent Adhesive)
Removability	Low Tack removable adhesive ,maximum adhesion is achieved in 24 hours
Release liner	New air drain technology (ADT) ensures fast and easy bubble free installation
Storage Period	2 Years from the Manufactured Date in Temperature Range of +10°C to +25°C Relative Humidity 50%, in original package, away from direct sunlight, clean and dry place .
Application Conditions	We strictly recommend applying film indoors, as this will not only help maintain a consistent temperature, it will also reduce the amount of dust and contaminants that may collect on the surface.

APPLICATION AND END USES

Conformability	Flat, simple and moderate compound curves, convex and concave surfaces
Applications	Full Vehicle Wraps & Graphics, Architectural Signage, Buses, Cars, Trucks & Vans, Mirrors, Bumpers, Hoods, Roofs, Door handles, Vehicle lettering, Interior trim, Watercraft, Decals & Stripes, Accents & Trim, Dash panels, Electronics (. smooth and medium curved surfaces)
End Uses limitations	1)Surfaces painted with poor paint2)Low surface energy substrates 3)Weak binding surfaces 4) Rusty metal surfaces like iron, copper, brass, silver; surfaces with silicone, wax, or any other coating (ceramic, quartz) -Moist or cold surfaces with weak binding

OPERATING RECOMMENDATIONS

Application Tools	High density felt squeegee Sharp Blade (Knives with 30 and 45-degree blades) Professional temperature controllable heat gun
	Lint-Free Towel or Lint-Free <u>Paper</u> Towel (Make sure that the surface, edges, corrugations, hollows, humidity under rubber seals and joints of the vehicle are dry)
	Wrap Gloves 70% Isopropyl alcohol
Pre-installation	Chrome vinyl films stretch less than other vinyl styles. If you over-stretch the film, it will "haze-over" thus becoming more of a matte whitish finish, destroying the chrome effect. Chrome finishes can easily burn/melt and haze-over from the same heat that you would use for gloss or matte films. Use lower, slow heat. Don't use a torch, only heat gun! Chrome finishes scratch easier and their lifetime (before the color start to fade) is about half of that of gloss and matte films.

SURFACE CLEANING

Pre-Installation Cleaning Products	1) Clean the surface with a soapy solution. 2) General Paint-safe Cleaner , Clean away any petrochemical conta 3) Grease and wax remover 4) Clean the surface with abrasive clay to remove the rest of the conta 5) Isopropyl Alcohol (IPA)
Steps to wash car after wrapping	Don't washing the car during wrapped after one week Keeping your vehicle wrap clean by hand washing your vehicle regularly. Do not take the car through automatic car washes with bristles. Only use touchless automatic car washes. Rinse off as much dirt (Clean stains / droppings immediately) as possible with a spray of water, non-abrasive automotive soap , then rinse and dry with soft microfibers. A high-pressure spray can be used on most vinyl wraps from a distance. Keep the nozzle at least 12 inches away from the surface. Never point the nozzle directly on wrap or against a seam as a rip or tear could appear. Please note that the application of waxes, polishes, or coatings changes the finish and may impact the film's longevity. Park your car in the shade. The constant beating of the sun is bad enough on paint and is much harsher on vinyl. Protected or not. If possible, park your car in the garage to protect the wrap. Otherwise, this may lead to faster color fading and change the adhesive properties. Precipitation like rain may have pollutants.

KKVINYL doesn't make a post-installation warranty on the chrome vinyl (LCF,GCF,RCF,SCH,MSF) Installation of chrome is not recommended for beginners!
Even at a professional, expert level, chrome wraps are very difficult and installers make mistakes during install. Make sure you get plenty of extra material when purchasing material for your vehicle. (We offer special size for rainbow chrome wraps (code : RCF) 52" x 60ft /1350mm x18m . Chrome vinyl films behave differently and are more sensitive than regular gloss or matte wrap films!

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Wrapping Tips

Step 1 Application of Chrome vinyl wrap film to your vehicle

Step 2 Cutting/preparing a vinyl piece to install on a panel
Cut out a piece of film which is roughly 4-6 inches larger than the panel on all sides. This will allow you to pull on the film and reposition it without putting your fingers/hands under the areas which are going to be laid down on the panel. The temperature of the surface area should not exceed 80 degrees Fahrenheit. If the temperature is higher than 80 degrees there is an increased chance of over-stretching and damaging the film. Also, the adhesive is heat activated and this will add complications when repositioning chrome.

Step 3 Positioning the piece on the panel

Once the panel is ready to be wrapped, place the film against the panel (colour side facing out) and use your magnets to hold and reposition the film until you've got it in place. Make sure you have full coverage of the panel before proceeding to remove the backing paper.

Step 4 Removing the protective layer & backing paper from the film

Remove the clear protective shipping liner, this is a clear non-conformable film which is put over the chrome to protect it during transportation and handling. Do not attempt to install the chrome with this liner on!

Unlike other finishes, chrome is not forgiving, handling defects (creases, fingers etc...) will not heal with heat, they are permanent.

Remove mounting magnet on desired end you choose to start with, lift the film gently and peel some of the backing paper off. Note: when removing backing paper, be extremely gentle as this is usually where mistakes happen which will lead to permanent crease marks in the chrome. Roll off the backing paper evenly to ensure that the film is not being damaged and to ensure that the backing paper doesn't tear.

Step 5 Glassing the piece on the panel

Now that we have the backing paper and protective liner off we can now "glass" the film on the panel. Glass simply means "create a surface free of wrinkles", the films should look "flat" before applying it. This is easier with help but can be done alone using magnets on the opposing sides to hold the film down flat with tension.

Step 6 Handling the film during install stretching & heating

Chrome is extremely delicate and very sensitive to heat. Over heating the film will haze and crack the finish. Over stretching the film will also cause hazing and cracking. Creasing the film will cause permanent marks. If you've caused any of this to happen to the film you will see it right away.

When adding heat, we want to add it over as large of an area as possible, this is especially true when we wrap bumpers in chrome, getting it right the first time is paramount. When lifting the film you need to pull the film up and off very quickly in one smooth motion, this motion combined with Tack Reducer will reduce your chances of causing blemishes greatly.

Step 7 Squeegeeing the vinyl

Time to squeegee the air out. Before we ever put our squeegee over chrome we always mist the area using some kind of lubrication, I religiously use the Vivid Shield Guard. This solution will help protect the film and will also allow the squeegee to glide across the surface without scratching the chrome. If you're installing chrome, you should have basic squeegee techniques and principles down (so we are not getting into this).

Step 8 Trimming, post heating and corners

After the film has been applied to a surface, trim off the excess. We leave about 3mm of excess film to be rolled around edges. When rolling excess around edges, we tend to use our fingers mostly but sometimes a squeegee is required to get into crevices we can't reach with fingers. This is where the wrap glove shines. Gloves will help protect your hand from heat and also allow your fingers to glide over vinyl without friction. Friction can cause the vinyl to bunch up and ruin an entire panel. Once edges are rolled, use the heat gun and your gloved finger and seal the edges with firm pressure.

When it comes to corners, we use a generous amount of heat, which is concentrated on the backside or underside of the corner. Heating from the opposite side will reduce your chances haze on the visible side. Trim-off any excess that's left on corners as this is a key place for peel-back and lifting. Once all of the edges and corners have been secured we go over everything with a gentle post heating – which is crucial to avert lifting!

Article based on one written by Christian Kungl with minor changes/additions.