



CHROMIUM SOLVENT CHROME

Technical Data Sheet

INTRODUCTION

Chromium is a solvent based chrome system designed by Creative Paints to provide a quicker and simpler way of achieving a chromed finish. The paint has been specially formulated to create a chrome effect in a very short space of time using just the standard equipment found in a spray room.

This versatile product can be built up to a high shine, aged to create an antique appearance, used to create mirrors or coloured with candy dyes to create a multitude of effects.

Creative Paints recommends that individuals new to this form of coating practice on test samples first to ensure they are fully comfortable with the process.

COLOUR AVAILABILITY

Standard application: Shiny silver finish

Dying: A coloured or anodized look can be achieved by applying a candy tinted topcoat.

MIXING

Ready to spray, shake well before using.

POT LIFE

Not Applicable – will keep in airtight container

GUN SET UP

Conventional (Gravity): 0.8mm – 1.2mm

HVLP (Gravity): 0.8mm – 1.2mm

AIR PRESSURE

Conventional: 3-4 bar

PREPARATION

To achieve the highest mirror-like reflectivity lies in the surface preparation of the object you are spraying. The smoother, more "glass-like" your surface is, the more reflective the final appearance will be.

Chromium should only be applied over a 2K black gloss. This must be fully cured and fully dried or oven baked. If not oven baking, allow an air-drying time of **7 days** for tail-end solvents to evaporate. Failure to allow the full curing time will result in a dull final appearance.

IMPORTANT:

If the 2K black gloss has not been left to fully cross link, the resulting chrome effect will be very dull. Chromium has a very high solvent content so it must be left to fully harden.

Air temperature of the spray area should be a minimum temperature of 20°C for best results. Spraying below this temperature can slow down the process as it will take the solvents within the paint longer to evaporate.

APPLICATION

Shake the paint well.

Strain the paint into the paint gun.

Apply Chromium using a **very light dusting effect**, spraying with the **air set much higher than normal**. You should have a very small volume of paint, with a substantial amount of air.

Apply 2-3 light coats, until the desired effect is achieved. There is no need for a flash off time between coats.

Chromium dries very quickly. After about an hour, gently wipe the chrome surface with a very soft polishing cloth (such as a new yellow duster). This will vastly improve the quality of the shine. Be careful not to buff too hard or the surface may be damaged – you only need to use the weight of the cloth to lightly polish the surface. If this happens, repair the damaged area by applying more Chromium to this area, then dust off the newly painted area.

The Chrome will be touch dry in minutes, but needs any remaining solvents to fully evaporate before a clear coat can be applied. For this reason, allow the chrome to fully air dry in a warm room for about 30 minutes.

TOPCOATING

WATER-BASED STABILISER

It is strongly recommended that for all applications except mirroring, water-based stabiliser is applied before a lacquer, to protect the shine and resist dulling. This product can be purchased from the Creative Paints web shop.

To apply, spray 1 wet coat over the entire surface (this goes on milky/cloudy but then dries clear).

Once the sealer is dry, (approximately 45mins -1 hour) apply a 2K lacquer as normal.

Tip: *At this stage, a candy concentrate can be added to the lacquer to give a coloured finish.*

TROUBLESHOOTING

APPLYING THE CHROMIUM	
PROBLEM	SOLUTION
Runs in chrome	Do not apply like a regular spray paint. Always apply Chromium with the air turned up high, with very little product coming out, and apply dust-coats only.
Chrome has a dull, silver appearance on application	Make sure a black 2K high gloss coat has been applied. Ensure the black gloss is fully cured (allow 7 days to fully cross link) as solvents released during the curing process can dull the chrome effect.
Patchy looking chrome	Make sure the ambient temperature is at least 20°C to aid evaporation of solvents.
Chrome started off as a mirror effect then dulled down.	Less is more with this product. Over application will result in a duller finish.

LACQUERING OVER THE CHROME	
PROBLEM	SOLUTION
Chrome dulling after applying clear coat	Apply 1 coat of CCP Chromium water-based stabiliser before applying the lacquer.
Black streaks appearing in chrome during lacquering	If too much pressure is applied when the chrome is polished before lacquering, black streaks will appear. Use a very light polishing action - just the weight of the duster is enough action.

HEALTH & SAFETY

Please read all Material Safety Data Sheets for all products before use.

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