

# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME® BASE COAT V-BCL

<b>Product Description</b>	Cosmichrome® Base Coat V-BCL ensures adherence to the substrate and metal solutions to the basecoat.		
<b>Advantages</b>	Easy to apply. Lays flat and glossy. Fast drying. Can't be over dried. Provides excellent adhesion of plating.		
<b>Chemical Composition</b>	Solvent based urethane.		
<b>Product Data</b>	<b>Color:</b> gray	<b>Drying time:</b> - natural air dry 24 hr / - bake 1 hr at 140° F (60° C)	
	<b>Finish:</b> high gloss	<b>V.O.C. % by weight:</b> 48.5%	
	<b>Appearance:</b> gray liquid	<b>Product Shelf Life:</b> 1 year	
	<b>Recommended Film Thickness:</b> - WFT 3mils - DFT 1mils	<b>Density:</b> 0.97 g/ml <b>Viscosity:</b> 12	

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### Directions For Use

<b>Surface Preparation</b>	Must be smooth and clean. Wash / degrease the surface prior to the application of the Base Coat V-BCL.
<b>Recommendations</b>	Minimum sandpaper grit 1000 final. Must be applied in a well-ventilated paint booth at room temperature.
<b>Mixing</b>	- Mix in a ventilated area and wear a respirator. - Shake/stir basecoat well before using every time. In a clean container, carefully mix 100 grams Base Coat V-BCL, with 40 grams V390 Catalyst. DO NOT ADD ANY THINNER/SOLVENT.
<b>Application</b>	- Use product within 45 minutes of mixing. Apply two coats of Base Coat V-BCL 10 min. apart on surface to be coated, allow to air dry (flash off) for 30 min. Baking at 140° F / 60° C for 1 hour min. or let air dry for 24 hr. - Allow to cool for 60 min (ROOM TEMP) before proceeding with the next steps of the plating process.
<b>Equipment Recommended</b>	Gravity fed spray gun 1.3 nozzle tip, 35 / 40 psi.

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### Safety

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

For detailed information please refer to Safety Data Sheet.

Check for recent amendments to this data sheet at [www.cosmichrome.com](http://www.cosmichrome.com)

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME® TOP COAT VU-15

<b>Product Description</b>	Cosmichrome® Top Coat VU-15 gives the final finish and color, protecting the substrates. Depending on the desired color, you can use either the Top Coat CHROME (classic chrome color) or the Top Coat CLEAR (adding the dyes of your choice).		
<b>Advantages</b>	Easy to apply. Durable and flexible. Will not produce "champagne bubbles" or solvent pop. Excellent adhesion to metal. Non yellowing.		
<b>Chemical Composition</b>	Solvent based acrylic urethane.		
<b>Product Data</b>	<b>Color:</b> - Top Coat Chrome: blueish - Top Coat Clear: slight yellow	<b>Drying time:</b> - natural air dry 24hr / - bake 1 hr at 100° F (40° C)	
	<b>Finish:</b> high gloss	<b>V.O.C. % by weight:</b> 55.9%	
	<b>Appearance:</b> blueish / slight yellow liquid	<b>Recomm. Film Thickness:</b> WFT 3mils / DFT 1mils	
	<b>Product Shelf Life:</b> 1 year	<b>Viscosity:</b> 11 <b>Density:</b> 0.923 g/ml	

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### Directions For Use

<b>Surface Preparation</b>	Make sure there is no moisture remaining on the plated surface, must be dry and free of any contaminants.
<b>Recommendations</b>	Must be applied in a well-ventilated paint booth at room temperature.
<b>Mixing</b>	<ul style="list-style-type: none"><li>- Mix in a ventilated area and wear a respirator.</li><li>- Shake/stir topcoat well before using every time. In a clean container, carefully mix 100 grams Top Coat VU-15, with 40 grams V390 Catalyst. DO NOT ADD ANY THINNER/SOLVENT.</li><li>- Wait 10 minute induction time.</li></ul>
<b>Application</b>	<ul style="list-style-type: none"><li>- Use product within 2 hours of mixing. Apply using standard spray equipment according to directions.</li><li>- Apply two coats of Top Coat VU-15 on surface to be sealed and protected, allow to air dry for 10 min between coats. Bake at 100° F (40° C) for 1 hour maximum or let air dry for 24 hr (ROOM TEMP).</li><li>- Allow to sit for another 24 hours before packaging it.</li></ul>
<b>Equipment Recommended</b>	Gravity fed spray gun 1.3 nozzle tip, 35 / 40 psi.

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### Safety

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME<sup>®</sup> CATALYST V-390

<b>Product Description</b>	Cosmichrome <sup>®</sup> Catalyst V-390 must be mixed with the Top Coat and Base Coat to harden the paint.	
<b>Advantages</b>	Ensures paint protection for long term.	
<b>Chemical Composition</b>	Isocyanate.	
<b>Product Data</b>	<b>Color:</b> transparent	<b>Drying time:</b> reactive chemical
	<b>Finish:</b> high gloss	<b>V.O.C. % by weight:</b> 17.4%
	<b>Appearance:</b> transparent liquid	<b>Product Shelf Life:</b> 1 year
	<b>Viscosity:</b> 15	<b>Density:</b> 1.014 g/ml

### Directions For Use

#### Mixing

- Mix in a ventilated area and wear a respirator.
  - Shake catalyst well before using every time. In a clean container, carefully mix in the ratio of
    - 40% Catalyst V-390 to Base Coat V-BCL or Top Coat VU-15.
    - 30% Catalyst V-390 to Top Coat VU-15 Low VOC.
- DO NOT ADD ANY THINNER/SOLVENT.

Works together with Base Coat V-BCL, Top Coat VU-15 and Top Coat VU-15 Low VOC.  
For all usage directions, refer to Base Coat V-BCL TDS, Top Coat VU-15 TDS and Top Coat VU-15 Low VOC TDS.

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME® TOP COAT VU-15 LOW VOC

<b>Product Description</b>	Cosmichrome® Top Coat VU-15 Low VOC gives the final finish and color, protecting the substrates. Depending on the desired color, you can use either the Top Coat CHROME Low VOC (classic chrome color) or the Top Coat CLEAR Low VOC (adding the dyes of your choice).		
<b>Advantages</b>	Easy to apply. Durable and flexible. Will not produce "champagne bubbles" or solvent pop. Excellent adhesion to metal. Non yellowing.		
<b>Chemical Composition</b>	Solvent based acrylic urethane.		
<b>Product Data</b>	<b>Color:</b> - Top Coat Low VOC Chrome: blueish - Top Coat Low VOC Clear: slight yellow	<b>Drying time:</b> - natural air dry 24hr / - bake 1 hr at 100° F (40° C)	
	<b>Finish:</b> high gloss	<b>V.O.C. % by weight:</b> 22.6%	
	<b>Appearance:</b> blueish / slight yellow liquid	<b>Recomm. Film Thickness:</b> WFT 3mils / DFT 1mils	
	<b>Product Shelf Life:</b> 1 year	<b>Viscosity:</b> 11	<b>Density:</b> 0.923 g/ml

### Directions For Use

<b>Surface Preparation</b>	Make sure there is no moisture remaining on the plated surface, must be dry and free of any contaminants.
<b>Recommendations</b>	Must be applied in a well-ventilated paint booth at room temperature.
<b>Mixing</b>	- Mix in a ventilated area and wear a respirator. - Shake/stir topcoat well before using every time. In a clean container, carefully mix 100 grams Top Coat VU-15 Low VOC, with 30 grams V390 Catalyst. DO NOT ADD ANY THINNER/SOLVENT. - Wait 10 minute induction time.
<b>Application</b>	- Use product within 2 hours of mixing. Apply using standard spray equipment according to directions. - Apply two coats of Top Coat VU-15 Low VOC on surface to be sealed and protected, allow to air dry for 10 min between coats. Bake at 100° F (40° C) for 1 hour maximum or let air dry for 24 hr (ROOM TEMP). - Allow to sit for another 24 hours before packaging it.
<b>Equipment Recommended</b>	Gravity fed spray gun 1.3 nozzle tip, 35 / 40 psi.

### Safety

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME<sup>®</sup> ACTIVATOR A22

**Product Description** Cosmichrome<sup>®</sup> Activator A22 activates the basecoat and accepts the metal mirror finish.

**Advantages** Mix with distilled water and use immediately.

**Chemical Composition** Water based / tin solution

**Product Data**

<b>Color:</b> transparent	<b>V.O.C. % by weight:</b> 0%
<b>Finish:</b> reflective mirror	<b>Product Shelf Life:</b> 1 year
<b>Appearance:</b> transparent liquid	<b>Density:</b> 1.174 g/ml
<b>pH:</b> 0.75	

### Directions For Use

**Surface Preparation** Object to be plated must have Base Coat B-VCL applied prior.

**Recommendations** Must be applied in a well-ventilated paint booth at room temperature. For mixing use only very clean distilled water or DI water if necessary. Only make as much as needed for one day. Once mixed with water this product is only good for 6 hrs. MUST BE DISCARDED AFTER THE 6 HRS.

**Mixing**

- Mix in a ventilated area and wear a respirator.
- SHAKE BOTTLE WELL, add 20gr of Activator A22 for every (1000grams) of Distilled water (DO NOT STIR). Add to container marked Activator A22 on machine.

**Application** This product must be used with one of the Cosmichrome spray chrome systems. Refer to system *usage guide* or *training videos*.

**Equipment Required** One of the Cosmichrome spray chrome systems.

### Safety

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME<sup>®</sup> G5 SOLUTION

<b>Product Description</b>	Cosmichrome <sup>®</sup> G5 solution works in conjunction with the G4 solution to form metal.	
<b>Advantages</b>	Ready to use. No mixing required!	
<b>Chemical Composition</b>	Water based.	
<b>Product Data</b>	<b>Color:</b> transparent	<b>V.O.C. % by weight:</b> 0.06%
	<b>Finish:</b> reflective mirror	<b>Product Shelf Life:</b> 1 year
	<b>Appearance:</b> transparent liquid	<b>Density:</b> 1.00 g/ml
	<b>pH:</b> 5.0	

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### Directions For Use

<b>Surface Preparation</b>	Object to be plated must have Base Coat B-VCL applied prior.
<b>Recommendations</b>	Must be applied in a well-ventilated paint booth at room temperature.
<b>Mixing</b>	<ul style="list-style-type: none"><li>- Use product in a ventilated area and wear a respirator.</li><li>- The G5 Solution is ready to use, no mixing is needed. Use a new, clean funnel and carefully add the product into the tank marked G5 on the Cosmichrome system that will be used for spraying.</li></ul>
<b>Application</b>	This product must be used with one of the Cosmichrome spray chrome systems. Refer to system <i>usage guide</i> or <i>training videos</i> .
<b>Equipment Required</b>	One of the Cosmichrome spray chrome systems.

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME® G4 SOLUTION

<b>Product Description</b>	Cosmichrome® G4 Solution once mixed with the G4-11 solution, it works in conjunction with the G5 solution to form metal.	
<b>Advantages</b>	Once the G4 solution is combine with the G4-11 solution, the shelf life is 90 days.	
<b>Chemical Composition</b>	Water based.	
<b>Product Data</b>	<b>Color:</b> yellowish transparent	<b>V.O.C. % by weight:</b> 0%
	<b>Finish:</b> reflective mirror	<b>Product Shelf Life:</b> - 1 year (unmixed with G4-11) - 90 days (mixed with G4-11)
	<b>Appearance:</b> transparent liquid	<b>Density:</b> 1.081 g/ml
	<b>pH:</b> 12.0	

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### Directions For Use

#### Surface Preparation

Object to be plated must have Base Coat B-VCL applied prior.

#### Recommendations

Must be applied in a well-ventilated paint booth at room temperature.

#### Mixing

- Mix in a ventilated area and wear a respirator.
- Carefully add one 470 gram container of Cosmichrome G4-11 to one 18 liter container of Cosmichrome G4. Or make smaller portions at a time. 26 grams G4-11 to 1000 Grams G4 solution (**need accurate scale to make portions**). Use a new clean funnel and carefully add the product into the tank marked G4 on the machine that will be used for spraying.

#### Application

Use product within three months of mixing (90 days). This product must be used with one of the Cosmichrome spray chrome systems. Refer to system *usage guide* or *training videos*.

#### Equipment Required

One of the Cosmichrome spray chrome systems.

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### Safety

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME® G4-11 SOLUTION

<b>Product Description</b>	Cosmichrome® G4-11 Solution once mixed with the G4 solution, it works in conjunction with the G5 solution to form metal.	
<b>Advantages</b>	Once the G4 solution is combine with the G4-11 solution, the shelf life is 90 days.	
<b>Chemical Composition</b>	Water based / crystal metals.	
<b>Product Data</b>	<b>Color:</b> transparent	<b>V.O.C. % by weight:</b> 0%
	<b>Finish:</b> reflective mirror	<b>Product Shelf Life:</b> - 1 year (unmixed with G4) - 90 days (mixed with G4)
	<b>Appearance:</b> transparent liquid	<b>Density:</b> 1.002 g/ml
	<b>pH:</b> 12.0	

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### Directions For Use

<b>Surface Preparation</b>	Object to be plated must have Base Coat B-VCL applied prior.
<b>Recommendations</b>	Must be applied in a well-ventilated paint booth at room temperature.
<b>Mixing</b>	- Mix in a ventilated area and wear a respirator. - Carefully add one 470 gram container of Cosmichrome G4-11 to one 18 liter container of Cosmichrome G4. Or make smaller portions at a time. 26 grams G4-11 to 1000 Grams G4 solution <b>(need accurate scale to make portions)</b> . Use a new clean funnel and carefully add the product into the tank marked G4 on the machine that will be used for spraying.
<b>Application</b>	Use product within three months of mixing (90 days). This product must be used with one of the Cosmichrome spray chrome systems. Refer to system <i>usage guide</i> or <i>training videos</i> .
<b>Equipment Required</b>	One of the Cosmichrome spray chrome systems.

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# COSMICHROME CHEMICALS

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# COSMICHROME<sup>®</sup> SPEED SEAL PRO 40

**Product Description** Cosmichrome<sup>®</sup> Speed Seal PRO 40 speeds up the drying process, protecting the plating from oxidation and stains.

**Advantages** Repels water from plating surface. Protects surface until Top Coat is applied.

**Chemical Composition** Water based.

**Product Data**

<b>Color:</b> transparent	<b>V.O.C. % by weight:</b> 0%
<b>Appearance:</b> transparent liquid	<b>Product Shelf Life:</b> 1 year
<b>pH:</b> 7.0	<b>Density:</b> 1.0 g/ml

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### Directions For Use

**Recommendations** Must be applied in a well-ventilated paint booth at room temperature.

**Mixing** USE AS IS. DO NOT DILUTE WITH WATER.

**Application**

- SHAKE BOTTLE WELL BEFORE EACH USE.
- Plate the part and rinse with distilled water. Spray a small amount of Speed Seal on the wet metallic surface.
- Wait 10 seconds and rinse with distilled water again.
- Blow the part with the air gun. The water will repel from the plated finish providing a quick and easy way to push off the small amount of water left on the part.
- Dry the part before spraying the Top Coat VU-15 with warm air for 30 min or natural dry for 1 hour. DO NOT EXCEED 6 HOURS.

**Equipment Recommended** Always use the provided hand pump sprayer to apply the product.

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET



# COSMICHROME® BASECOAT CLEANER BCNR

<b>Product Description</b>	Cosmichrome® Basecoat Cleaner BCNR dissolves and removes all surface dirt, fingerprints and contaminants off the Cosmichrome basecoat prior to plating.	
<b>Advantages</b>	Reconditions basecoated surface. Degreaser.	
<b>Chemical Composition</b>	Water based.	
<b>Product Data</b>	<b>Color:</b> transparent	<b>V.O.C. % by weight:</b> 0%
	<b>Appearance:</b> transparent liquid	<b>Product Shelf Life:</b> 2 year
	<b>pH:</b> 12.0	<b>Density:</b> 1.0 g/ml
	<b>Viscosity:</b> 10	

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### Directions For Use

<b>Recommendations</b>	USE WITH CLEAN DISTILLED WATER ONLY.
<b>Mixing</b>	USE AS IS. DO NOT DILUTE WITH WATER.
<b>Application</b>	<ul style="list-style-type: none"><li>- Saturate the basecoated surface and a new microfiber cloth with distilled water.</li><li>- Fold the microfiber cloth in half twice, making a soft cushion.</li><li>- FOR MORE THOROUGH CLEANING APPLY THE BCNR CLEANER TO THE DRY BASECOAT SURFACE, AS WELL AS ON THE MICROFIBER CLOTH.</li><li>- In a circular motion wipe the surface using little to no pressure (too much pressure may result in scratches on the basecoat).</li><li>- Rinse thoroughly with clean distilled water making sure no residue remains on the surface.</li></ul>
<b>Equipment Recommended</b>	Always use the provided hand pump sprayer to apply the product.

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### Safety

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

For detailed information please refer to Safety Data Sheet.  
Check for recent amendments to this data sheet at [www.cosmichrome.com](http://www.cosmichrome.com)

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### Important

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# COSMICHROME CHEMICALS

## TECHNICAL DATA SHEET

# COSMICHROME<sup>®</sup> DYES



<b>Product Description</b>	Cosmichrome <sup>®</sup> Dyes can be used in conjunction with our Top Coat Clear to obtain an upscale look and feel, simulating metals such as gold, brass, copper and bronze.		
<b>Advantages</b>	Wide array of colors that you can blend to create even more variety.		
<b>Chemical Composition</b>	Solvent based dyes.		
<b>Product Data</b>	<b>Color:</b> all colors available	<b>Drying time:</b> refer to Top Coat VU-15 TDS and Top Coat VU-15 Low VOC TDS	
	<b>Appearance:</b> liquid	<b>Product Shelf Life:</b> 1 year	
	<b>Recommended Film Thickness:</b> to be incorporated in the Top Coat Clear	<b>Density:</b> 0.84 g/ml	<b>Viscosity:</b> 1.002 cp (0° C)

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### Directions For Use

<b>Surface Preparation</b>	Must be dry and free of any contaminants.
<b>Recommendations</b>	The colors are not to be applied directly on the bare plated surface. You must seal the plated surface with the chrome, or clear Top Coat prior.
<b>Mixing</b>	<ul style="list-style-type: none"><li>- Mix in a ventilated area and wear a respirator.</li><li>- Add color tint to the clear topcoat to achieve the shade you desire. Mix color well into topcoat clear before using.</li></ul> MIXING RATIO: - red, blue, green, yellow, orange, white, aqua, pink: between 2%-6% - black, gold, bronze: between 1%-2%.
<b>Application</b>	After sealing the plated surface with the Top Coat (Chrome or Clear), apply 2 coats of colored Top Coat over the surface to obtain the shade of your choice.
<b>Equipment Recommended</b>	Gravity fed spray gun 1.3 nozzle tip, 35 / 40 psi.  Works together with Top Coat VU-15 and Top Coat VU-15 Low VOC. For all usage directions, refer to Top Coat VU-15 TDS and Top Coat VU-15 Low VOC TDS.

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### Safety

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

**For detailed information please refer to Safety Data Sheet.**

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