

TECHNICAL DATA SHEET

PRODUCT **VC105 VETROCOLOR STRUCTURED METALLIC COLOURS**

DESCRIPTION VC105 Vetrolcolor Structured Metallics are a 2-Pack polyurethane finish available in a range of fine, medium and coarse metallic colours, designed to maintain maximum appearance for the maximum length of time. Its principal application areas are for the decoration of glass surfaces

PROPERTIES

COLOUR	20 Chart colours. Matchings on request
GLOSS LEVEL	Semi-gloss
WEATHERING	Excellent
CHEMICAL RESISTANCE	Very good
SOLVENT RESISTANCE	Very good
ABRASION RESISTANCE	Very good
TEMPERATURE RANGE	From -30 °C up to 150 °C (dry)

TECHNICAL DATA

FLASHPOINT	23 °C
RECOMMENDED FILM BUILD	00 microns (wet) 40 microns (dry)
VOLUME SOLIDS	40 %(approximate)
THEORETICAL COVERAGE	Approximately 10 metres ² per litre at 100 microns wet
COMPONENTS	THREE (3)
MIXING RATIO	4 parts Part "A" : 1 part Part "B" by volume + 3% by volume VC801 Activator.
POT LIFE AT 25 °C	8 hours
DRYING AT 25 C	Touch dry 2 hours Handleable 6 hours Recoat 4 hours Full cure 5 days

Curing times are adversely affected by excessive paint film thickness, improper surface preparation, improper drying conditions and incorrect thinner selection

VC800 Vetrolcolor Thinner is the only thinner recommended for VC105 Vetrolcolor Structured Metallic finishes.

CHEMICALLY ASSISTED DRYING AT 25 °C:

Touch dry	1 hour	Handleable	3 hours
Recoat	2 hours	Full cure	3 days

APPLICATION METHODS Air or airless spray.
 Chemically assisted drying requires air atomisation or shaping air.

SHELF LIFE 12 months (minimum) in original sealed containers

PACKAGING Part A 1 litre, 4 litre, 20 litre
 Part B 1 litre, 5 litre.

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SYSTEM RECOMMENDATIONS / SURFACE PREPARATION

Clean and prepare the surface as per recommendations in the Vetrolcolor manual to suit specific applications.

Apply 1 or 2 coats of VC105 Vetrolcolor Structured Metallic 100 - 120 microns (wet film) / 40 - 48 microns (dry film) to give the desired finish.

Allow 16 hours drying between coats.

Note that a final backing coat is optional, but strongly recommended to enhance appearance and to offer maximum protection.

SURFACE PREPARATION

All surfaces to be coated must be clean, dry and free of all contaminants.

Refer to the Vetrolcolor manual for recommendations for specific applications.

MIXING

Stir each of the components till homogenous.

Mix FOUR (4) parts of base to ONE (1) part hardener by volume until fully blended.

Add 30 mls of VC801 ACTIVATOR per Litre to ENSURE ADHESION

Allow the mixed paint to stand for 10 minutes before using to allow any evolved gases and/or entrapped air to escape.

Failure to follow this procedure may lead to fine bubbling and/or pinholes in the dried paint film.

THINNING

Use VC800 Vetrolcolor Thinner only, up to a maximum of 25 % by volume depending on method of application employed.

SPRAYING

CONVENTIONAL PRESSURE POT	1.5 mm fluid orifice using 385 kPa (50 psi).
Pressure at pot	: 65 kPa (10 psi)
Pressure at Gun	: 385 kPa (50 psi)

AIRLESS

Standard airless equipment using 28:1 pump ratio and fluid tip range 475 - 525 microns (0.019 - 0.021 inches) and supply air at 520 - 650 kPa (80 - 100 p.s.i).

Thin as necessary with VC800 Vetrolcolor Thinner.

EQUIPMENT CLEANUP

Clean up equipment up with VC800 Vetrolcolor Thinner.

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PRECAUTIONS

SAFETY

Provide adequate ventilation during use.
Airflow should be adequate to ensure a comfortable working atmosphere.
When spray painting, users should comply with the provisions of the State Spray Painting Regulations.
Where this is not possible, operators must use an air supplied respirator complying with Australian Standards AS1715 and AS1716.

This product is flammable and all sources of ignition (flame, pilot lights, furnaces, spark producing switches & etc.) must be eliminated in, or near the application area.

DO NOT SMOKE.

This product is poly-isocyanate catalysed and all the necessary precautions must be observed when handling this type of material.
Avoid contact with skin and eyes.
Wear protective goggles and gloves when handling the material.
In the case of skin contact, remove contaminated clothing and wash skin thoroughly with clean water. Seek medical attention if eyes are affected by splashes or fumes.

GENERAL

Freshly mixed material must **NOT** be added to material which has been in use for some time.
Rate of cure is dependent upon temperature.
Do not apply this product at temperatures below 10 °C or relative humidities above 85 %.
Ensure maximum recoat interval is not exceeded otherwise surface must be lightly abraded and then dusted to ensure maximum inter-coat adhesion.
Shelf life is normally 12 months but depends on storage conditions.

DANGEROUS GOODS

Part A	Class 3.1	UN	1263	PAINT HFP
Part B	Class 3.2	UN	1866	RESIN SOLUTION

This data sheet is based on information in BC Coatings possession at date of issue.
BC Coatings supplies its products only on condition that the consumer is satisfied as to the performance of the product in meeting his particular requirements.