



Challenger® CH2021 Low VOC DTM Primer




COMPONENTS
CH2021 Low VOC DTM Primer
CH0017 or CH0019 Low VOC Hardener



APPLICATION
1-3 coats
5-10 minute flash off between coats




MIX RATIO
4 : 1



DRY TIME
Air dry: 1 hour @75°F (24°C) per 1-2 coats
Bake: 20 minutes @140°F (60°C)



VISCOSITY
Zahn #3
11-13 seconds



VOC
250 grams / liter
2.1 lbs / gallon



GENERAL

DESCRIPTION

Challenger CH2021 is a 2.1 lb/gal (250 g/L) VOC compliant, 2K urethane direct to metal primer-filler designed to provide high build and an exceptionally free-sanding film without shrinkage or sand scratch swelling.

COMPATIBLE SUBSTRATES

Properly cleaned and prepared steel, aluminum and galvanized metal. Properly sanded and prepared OEM finishes, cured paint, cured body filler and properly sanded fiberglass. Properly prepared rigid plastic.

Use Axalta VS3000 Etch Primer over galvanized steel is an industry best practice.

COLOR

- CH2021 Grey

The products referenced herein may not be sold in your market. Please consult your distributor for product availability.



MIXING

COMPONENTS

Mix 4 parts Challenger CH2021 Low VOC DTM Primer to 1 part Challenger CH0017 or CH2019 Low VOC Hardener. Spray viscosity 11-13 seconds in Zahn #3 @ 77°F (25°C).

Component	Volume
Challenger CH2021 Low VOC DTM Primer	4
Challenger CH0017 or CH0019 Hardener	1

Package Size

- 1 gallon (3.785 liters)

INITIAL APPLICATION VISCOSITY

Zahn #3 Viscosity 11-13 seconds

POT LIFE

1 Hour @75°F (24°C)



APPLICATION

APPLICATION EQUIPMENT

HVLP Gravity	1.7 - 1.9 mm	7 - 9 PSI	at the cap
High Efficiency	1.7 - 1.9 mm	21 - 28 PSI	at the gauge

NOTE: Refer to spray gun manufacturer for further information regarding HVLP Inlet Pressures

SURFACE PREPARATION

Remove dust or oxidation prior to applying primer by media blasting, grinding or sanding. Be certain all surfaces are free of waxes, oils, grease or other contaminants.

Over galvanized steel, an industry best practice is to use an etch primer such as Axalta VS3000 Etch Primer.

NOTE: Do not use over lacquer primer, lacquer finishes or uncured substrates.

APPLICATION

Apply in single wet coats, allowing 5-10 minute flash at 75°F (24°C) between coats. For standard fill: We suggest 2 coats maximum. If 3 coats are applied, allow for overnight drying. 2 mils minimum final film is need to provide good corrosion protection.



DRY TIMES

AIR DRY

1 hour @75°F (24°C) per 1-2 coats
Over night for high build 3 coats

BAKE

20 minutes @140°F (60°C)

INFRARED SHORT WAVE

20 minutes full power @36"



PHYSICAL PROPERTIES

Recommended Film Thickness	50 microns /2.0 mils per coat – Dry Film Build
Mixed Volume Solids	43% (Average)
Theoretical Coverage	N/A
Recommended Coats	1-3 (x1)
DFT per Coat	Approximately 2.0 mils
Theoretical Coverage:	693 ft ² (54.4 m ²) at 1 mil
Flash Point:	See SDS

STORAGE CONDITIONS

Store in a dry, well ventilated area. Storage temperatures should be between -30°F (-34°C) and 120°F (48°C).

VOC REGULATED AREAS

All Values Ready To Spray

	Standard Reduction (4:1)
Max. VOC (LE)	233 g/L (1.86 lbs./gal)
Max. VOC (AP)	127 g/L (1.06 lbs./gal)
Avg. Gal. Wt.:	1530 g/L (12.76 lbs./gal)
Avg. Wt.% Volatiles:	44.5%
Avg. Wt.% Exempt Solvent:	36.2%
Avg. Wt.% Water:	0.0%
Avg. Vol.% Exempt Solvent:	43.0%
Avg. Vol.% Water:	0.0%

These directions refer to the use of products which may be restricted or require special mixing instructions in VOC regulated areas. Follow mixing usage and recommendations in the VOC Compliant Products Chart for your area.

SAFETY AND HANDLING

For industrial use only by professional, trained painters. Not for sale to or use by the general public. Before using, read and follow all label and SDS precautions. If mixed with other components, mixture will have hazards of all components.

Ready to use paint materials containing isocyanates can cause irritation of the respiratory organs and hypersensitive reactions. Asthma sufferers, those with allergies and anyone with a history of respiratory complaints must not be asked to work with products containing isocyanates.

Do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

Revised: April 2023

In the United States:
1.855.6.AXALTA
ChallengerCoatings.us

