

SELECTION & SPECIFICATION DATA

Generic Type	Aluminium-filled vinyl acrylic
Description	<p>A specialised variant of the well-proven Chem~Bar™ 900. A high-performance aluminium-filled vinyl acrylic suitable for use as a general-purpose aluminium finish and for sealing thermal metal spray.</p> <p>Chem~Bar™ 900 Aluminium Finish may be used in all atmospheric exposures where traditional aluminium finishes may be employed including:</p> <ul style="list-style-type: none"> • Pulp and paper industry • Chemical process industry • Sewage and waste-water plants • Water tank & silo exteriors • Refineries • Fertilizer plants • Marine installations • Bridges • Power projects • Containers • Shipping
Features	<ul style="list-style-type: none"> • Developed from proven technology • Quality aluminium finish • Designed for use as a sealer over: <ul style="list-style-type: none"> • Zinc metal spray • Zinc / aluminium 95/5 metal spray • Aluminium metal spray • Improves the appearance of metal spray • Increases the performance life of metal-spray • Long term self-recoatibility with minimal surface preparation
Colour	Aluminium
Finish	Low sheen
Dry Film Thickness (un-thinned material)	<p>40 microns when used as a finish coat 114 microns wet to obtain 40 microns dry</p> <p>20 microns when used as a metal-spray sealer** 57 microns wet to obtain 20 microns dry</p> <p><i>**To calculate consumption / spreading rate when sealing metal-spray add 15 microns DFT equivalent per 100 microns of metal spray substrate; for example: Metal-spray substrate is 150 microns average; therefore, required DFT equivalent to achieve 20 microns over the metal spray = $20 + (1.5 \times 15) = 44.5$ microns DFT equivalent consumption</i></p>
Solids Content	By volume 35% ± 1%
Theoretical Coverage Rate	8.8 m ² /L at 40 microns Allow for loss in mixing and application.
VOC Values	As Supplied : 522 g/L
Dry Temp. Resistance	70°C Dry
Limitations	<p>The alignment of aluminium flakes in aluminium-filled finishes is very dependent on application conditions and techniques. Care must be taken to keep conditions as constant as possible to reduce variations in final appearance. It is also advisable to work from a single batch of material since variations can occur from batch to batch. For more information consult Altex Technical Services.</p> <p>Not recommended for immersion, or contact with solvents or fats, or for exposure in strongly acidic or alkaline environments.</p>

SUBSTRATES & SURFACE PREPARATION

General	All surfaces must be sound and free of oil, grease, dirt, loose and flaking paint, moisture, and other foreign substances prior to application of Chem~Bar™ 900 Aluminium Finish.
Steel	Chem~Bar™ 900 Aluminium Finish is self-priming as a 2 or more-coat system or may be applied to surfaces primed with a compatible primer. Compatible primers include Chem~Bar™ 3500 Primer, Multi~Bond Primer, High Build Rust Barrier, Zinkex 100, Carbozinc® 859 EZ2, and CarboGuard® 504.
Thermal Metal-Spray	Chem~Bar™ 900 Aluminium Finish should be applied to clean freshly applied metal-spray. To achieve full penetration of the metal-spray pores it is important to thin this material; see for further details under Thinning.

MIXING & THINNING

Mixing	Stir thoroughly to ensure a homogeneous condition.
Thinning	For application as a general-purpose finish coating, thin Chem~Bar™ 900 Aluminium Finish as required: generally in the range of 0 – 15% addition by volume of Altex Thinning Solvent #10. For sealing metal-spray it is essential to thin Chem~Bar™ 900 Aluminium Finish to maximize penetration into the porous substrate. The recommended rate of thinning is 25 – 30% v/v Altex Thinning Solvent #10. Note: Excessive thinning can cause low film thickness, sagging and other film defects
Ratio	N/A – single component coating
Pot Life	N/A

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	The preferred method of application for Chem~Bar™ 900 Aluminium Finish is spray.
Conventional Spray	1.0mm to 1.6mm fluid tip with appropriate air cap.
Airless Spray	Not recommended
Brush & Roller (General)	Brush and roller application are acceptable if conditions are not extreme. however, care must be taken to ensure the correct film build is applied.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	7°C	5°C	5°C	0%
Maximum	35°C	37°C	35°C	85%
Optimum	16-24°C	16-24°C	16-24°C	30-70%

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat	Dry to Touch
5°C	16 Hours	16-24 Hours	4 Hours
15°C	6 Hours	Overnight	90 Minutes
24°C	4 Hours	12 Hours	90 Minutes
37°C	90 Minutes	5 Hours	45 Minutes

Cure times are based on 40 microns dry at 50% relative humidity

CLEANUP & SAFETY

Cleanup | Use Altex Thinning Solvent #10

Safety | For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.

Ventilation | It is very important for the safety of the applicator and the proper performance of Chem~Bar® 900 Aluminium Finish that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry fresh air to remove all solvent vapours. Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all the solvents are removed from the coating.

PACKAGING, HANDLING & STORAGE

24 months at 24°C

Shelf Life | Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Shipping Weight (Approximate) | 10L - 10.4 kg

Storage Temperature & Humidity | Optimum: 15-20°C

Flash Point (Setaflash) | 28°C

Storage | Store under cool, dry conditions.
Avoid large fluctuations between high and low temperatures.
Avoid the formation of condensate due to low temperatures.

WARRANTY

DISCLAIMER

The information in this datasheet is provided as a guide only and is provided without warranty, implied or otherwise. It is your responsibility to determine the suitability of any information or product for the use contemplated. Conditions of use, application and the substrate are beyond our control so no liability whatsoever (whether as to coverage, performance, injury or otherwise) is accepted for the information contained herein.

Data sheets may change from time to time and it is your responsibility to ensure you have the latest product datasheet and material safety data sheet from your supplier. Check the data sheet date with the listings at www.altexcoatings.com and Altex Terms and Conditions of Trade, available at www.altexcoatings.com, apply in respect of all coating products and materials supplied, including samples.