product data



Carboweld® 14 WB

(formerly: F&H Indurazinc HRZ-14 Pre-Construction Primer)

Selection & Specification Data

Generic Type Potassium Silicate, Inorganic Zinc

Description Carboweld 14 WB is a fast drying, high zinc

content, 2-package pre-construction primer for steel substrates. It performs well as a shop/vard primer for corrosion protection during fabrication phase. It provides cathodic sacrificial protection and thus prevents corrosion of the underlying steel, like galvanizing. It contains 88% zinc dust by weight in the dried film. This waterborne product has no VOC or flash point. It can be used as a shop primer when weldability and corrosion protection are necessary. Use it in industrial, marine & process environments.

Features High zinc content

Zero VOC, water based formula

Cathodic protection

Excellent undercutting resistance Weldable pre-construction primer

Color Grey

Finish Flat

Topcoats Can be topcoated with epoxies or others as

recommended.

Drv Film

Thickness 0.75-1.25 mils

Solids $76\% \pm 2\%$ By Weight:

Content Zinc dust content (by weight): 88%± 2%

Theoretical Coverage

1003 ft²/gal @ 1 dry mil

Rate

Allow for loss in mixing and application.

VOC Values As supplied: 0 lbs./gal (0 g/l)

Maximum Service Temp

750°F in continuous service (dry)

Substrates & Surface Preparation

General Surfaces must be dry and thoroughly

cleaned to remove oil, dirt, dust, grease, mill scale, and any other contaminants that

can reduce adhesion.

Iron & Steel Solvent clean per SSPC-SP1. Prep to

Near White Blast SSPC-SP10 minimum. Shot Blasting is acceptable if a suitable surface anchor pattern is obtained; usually the inclusion of 15-20% of a sharp angular abrasive is recommended. Remove weld spatter and round sharp edges, grinding to a minimum 1/4" radius. Prime bare steel the same day it is cleaned or before flash

rusting occurs.

Special Information:

Do not allow to freeze. Do not apply if air, material, or surface and material temperatures are below 40°F or above 110°F. Do not apply film thicknesses above recommended levels to avoid mudcracking. Zinc must be thoroughly cured before topcoating. Apply a mist coat of the topcoat before applying a full coat of the topcoat to minimize bubbling.

Application Equipment

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.

General Guidelines:

Spray Application (General) Conventional spray is the recommended application method. Airless spray,

brushing and rolling are not

recommended.

Automated Spray Data:
Nozzle Pressure: 60 psi
Tip Size: .043-.072"
Spray Angle: 40-80°

Filter: Check to ensure filters are clean

Mixing & Thinning

Mixing Add zinc dust component to liquid resin

component while continuously power mixing the liquid. Do not add the liquid portion to the zinc dust component. After mixing, pour

through a 50 mesh screen.

Ratio <u>0.96-Gal</u> <u>4.8-Gal</u>

Carboweld 14 WB Part A 0.714 gal 3.57 gal

Special Zinc Filler 14.6 lbs 73 lbs

Thinning Thin with water up to 8 fluid ounces per

gallon, maximum.

Pot Life 6 hours @ 75°F

Cleanup & Safety

Clean up spills & equipment immediately

with warm soapy water. Flush equipment

with mineral spirits after cleaning.

Safety Read and follow all caution statements on

this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if

hypersensitive. Keep container closed

when not in use.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	60-85°F (16-30°C)	50-95°F (10-35°C)	50-95°F (10-35°C)	40-80%
Minimum	40°F (4°F)	40°F (4°F)	40°F (4°F)	0%
Maximum	110°F (43°C)	110°F (43°C)	110°F (43°C)	85%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

Curing Schedule

Surface Temp. & 50% RH	Surface Dry	Dry to Handle	Dry to Topcoat
41°F (5°C)	40 min	60 min	4 hours
50°F (10°C)	20 min	30 min	2 hours
75°F (24°C)	12 min	12 min	1.5 hours
95°F (35°C)	30 sec	30 sec	1 hour
110°F (43°C)	10 sec	10 sec	45 min

These times are based on a 1.0 mil (25 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

Packaging, Handling & Storage

 Shipping Weight (Approximate)
 0.96-Gal Kit 23 lbs
 4.8-Gal Kit 112 lbs

Flash Point (Setaflash) None

Storage (General) Store Indoors. Keep from Freezing.

Storage Temperature 40-110°F (4-43°C) **& Humidity** 0-90% RH

Shelf Life Carboweld 14 WB Part A: 24 months

Special Zinc Filler: 24 months

*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.



350 Hanley Industrial Court, St. Louis, MO 63144-1599 314/644-1000 314/644-4617 (fax) www.carboline.com

