

NASON® 491-21™ AND NASON® 491-22™ MACHINERY & EQUIPMENT LOW VOC PRIMER

A fast drying, corrosion resistant primer formulated for use as a Machinery & Equipment Primer that can be used under any topcoat.

TYPE:

Acrylic modified medium oil alkyd primer.

DESCRIPTION:

A single package, fast drying, low VOC universal primer for use under lacquer or enamel topcoats. Can also be used as a “shopcoat” or “onecoat” system to inhibit corrosion during transport and construction. Free of lead and chromates.

SUGGESTED USE:

- Shopcoat primer
- Intermediate coat
- General machinery and equipment

NOT RECOMMENDED FOR:

- Immersion service
- Application over inorganic zinc
- Galvanized surfaces
- Severe chemical environments
- Use under damp insulation

COMPATIBILITY W/ OTHER COATINGS:

- Can be applied directly to steel or over most old coatings in good condition
- Can be topcoated with alkyd, epoxy, acrylic and polyurethane coatings

DRY FILM CHARACTERISTICS:

Weather - Very Good
Humidity - Good
Chemical - Fair, with appropriate topcoat

MAXIMUM SERVICE TEMPERATURE:

200°F (93°C)

VOLUME SOLIDS:

52.1%

WEIGHT SOLIDS:

72.1%

VISCOSITY:

65-85KU

WEIGHT PER GALLON:

12.3 Lb.

5.6 Kg

SUGGESTED FILM THICKNESS:

4 mils (100 m) wet
2 mils (50 m) dry (to achieve uniform coverage)

THEORETICAL COVERAGE / GALLON:*

835 ft²/gal (20.5m²/L) @ 1 mil
417 ft²/gal (10.2m²/L) @ 2 mils
suggested dry film thickness.

*Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

GLOSS:

Flat

COLOR:

Red Oxide 491-21
Gray 491-22

FLASH POINT (TAG CLOSED CUP):

83°F (28°C)

SHELF LIFE:

12 months

APPLICATION THINNERS:

Ful-Base[®] 441-20[™], 441-21[™], or 441-22[™]
Reducers

CLEAN UP THINNERS:

Nason[®] 481-06[™] Lacquer Thinner
Nason[®] SelectThinner 481-16[™]

PACKAGING:

5 and 55 gallon container or bulk container

SHIPPING WEIGHT (Lbs.):

5 gallon container — 64
55 gallon container — 725

SURFACE PREPARATION:

A commercial blast to an SSPC-SP-6 specification is highly desired. If this is not possible, then hand clean to an SSPC-SP-2 specification, or power tool clean to an SSPC-SP-3 specification.

ACTIVATION:

No activation required

POT LIFE:

Indefinite

REDUCTION:

No reduction should be necessary. Any thinning will eliminate compliance with VOC limitation of 3.5 lbs/gal.

ADDITIONAL COMMENTS:

VOC 3.48 lb/gal.

Colors will vary, batch to batch. If using more than 1 batch on a job, blend materials to transition from the first batch to the next batch.

SAFETY:

Consult the Material Safety Data Sheet for this product prior to use.

APPLICATION CONDITIONS:

Do not apply when application surface temperature is below 40°F (4°C) or higher than 110°F (43°C) or when the atmospheric temperature is within 5°F of the dew point. Relative humidity should be below 90%.

CURE TIMES AT RECOMMENDED THICKNESS: 77°F (25°C) and 50% RH

Dry to Touch	30 minutes
Dry to Handle	60 minutes
Dry to Recoat	30 minutes
Hard Dry	48 hours

STORAGE CONDITIONS:

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

APPLICATION EQUIPMENT:

Apply by spray for best results. Small areas can be touched up by brush. Manufacturers listed below are a guide. Others may be used. Changes in pressure and tip size may be required to achieve proper application.

CONVENTIONAL AIR SPRAY:

	<u>Binks</u>	<u>DeVilbiss</u>	<u>Graco</u>
Spray Gun:	#18 #62	JGA502 or MBC510	800
Fluid Nozzle:	66 or 63C	FF or E	03 or 04
Air Cap:	66PE or 63PB	704, 765 or 78	02, 021 or 03

AIRLESS SPRAY:

Pump: Capability to produce approximately 3000 psi (e.g. Graco Bulldog, EM 390 or GM 3500)

High Pressure Filter: 160 mesh

Fluid Hose: 3/8" x 150' max.

Airless Gun: Graco 208663, 220-955

Tips: .013"-.019"

Minimum pressure to avoid fingering:
2200 psi

AIR ASSISTED AIRLESS:

Pump: 12:1 Senator (Graco)

Gun: 217292

Tips: .023"-.029"