

Technical Datasheet

Prime Coat 4300 Novolac



Highly chemical resistant two-component protective epoxy coating

Description

Medium to heavy viscosity coating that is used in areas that need high chemical resistance. Two-component, 100% solids, phenolic-novolac epoxy resin coating.

Primary Applications

- Secondary containment areas
- Battery charging stations

Advantages

- Resistant to 98% sulfuric acid
- Resistant to 70% nitric acid
- Resistant to most solvents
- Available in red for base coat and gray for top coat so you'll know when it is time to recoat.

Packaging

- 1.5 gallon units

Technical information: Physical properties at 73°F (23°C) - Liquid

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature,

Viscosity: 12,000 cps

Color: red or gray

Pot Life	100 grams	1 gallon mass	20 mils
90°F (32°C)	25 min	21 min	1 hr 30 min
73°F (23°C)	47 min	40 min	4 hr 45 min
50°F (10°C)	3 hrs	1 hr 15 min	10 hrs

Test results		
Compressive strength	10,700	ASTM D-695
Compressive modulus of elasticity	356,000	ASTM D-695
Tensile strength	6,800	ASTM D-638
Tensile modulus of elasticity	308,000	ASTM D-638
Tensile elongation	1.2%	ASTM D-638
Shore hardness	84 D	D scale
Water absorption	1%	ASTM D-570
Coverage (20 mils) (2 coats)	80 sq ft/gal at 20 mils (2 coat minimum recommended)	

Chemical resistance	
Sulfuric acid	98% resistance
Nitric acid	70% resistance
Resistant to most solvents	

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Accessory Products

- HydroLock primer

Directions For Use

Mixing Ratio:

A:B 2:1 by volume

Material Preparation: Store material overnight to precondition to between 70 and 80°F (21 and 27°C) prior to use.

Manual Mixing: Pre-mix each component prior to combining. “B” component contains pigments, fillers, and other chemicals the settle over time. Failure to properly pre-mix will result in uncured or improperly cured material. Only mix the amount of material that can be used within the pot life. To prevent bubble formation, avoid introduction of air into mixed material by controlling drill speed and mixing method. Thoroughly mix materials using a low speed drill with a mixing paddle. Scrape the sides and bottom of the pail while mixing. Note: Larger batches exotherm and set up faster than small batches

Limitations: Cold temperatures will slow down reaction time and increase viscosity. Do not use below 40°F (4°C). Material that is off ratio or not mixed thoroughly will not cure to full strength and may remain tacky indefinitely. If installed during cool or humid conditions, may result in cured material being cloudy.

Storage & Clean Up

Storage: Store in dry environment between 40° and 80°F (4.4 - 27°C). Do not allow product to freeze. Shelf life: 1 year from date of manufacture in unopened containers properly stored.

Clean Up: Clean off of skin with soap and water immediately.

Environmental Protection

Cured material is environmentally safe. Dispose of in according to appropriate regulations. Clean up any spilled catalyzed liquid material and dispose of according to local, state and federal regulations.

Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: ORM-D

Health & Safety

Safety: “B” component contains amines and may cause severe burns upon skin contact for any length of time. Use OSHA approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/ procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only.

First Aid

Eye Contact: Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately. **Skin Contact:** Wipe off contaminated area and wash with soap and water immediately.

Manufacturing

Products manufactured by Prime Resins, Inc. in U.S.A. under strict quality assurance practices at our Conyers, GA plant.

Warranty & Disclaimer

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the “shelf life” or “expiration date” printed on the package label.