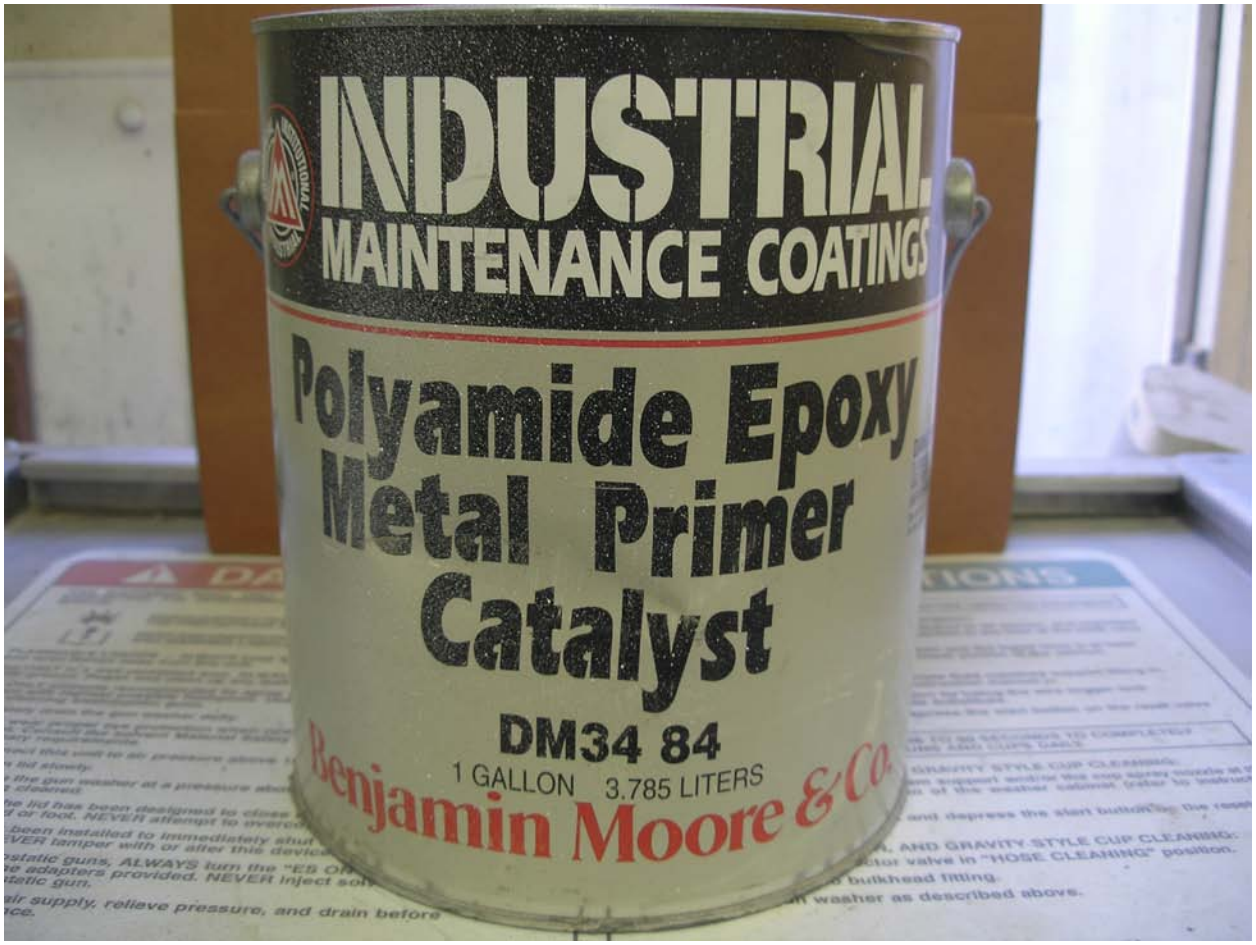

Chemical Name: Polyamide Epoxy Metal Primer Catalyst

Manufacturer: Industrial Maintenance Coatings

Container size: 1 gallon

Location: VLA

Disposal: Place empty container in trash.

Benjamin Moore & Co.

INDUSTRIAL MAINTENANCE COATINGS

DM33 / DM34 Polyamide Epoxy Metal Primer

Features

- Corrosion resistant
- Chemical resistant
- Excellent adhesion
- Supports epoxy and urethane top coats
- Interior or exterior applications
- Very low VOC content

General Properties

This two component epoxy primer is formulated to protect clean or pretreated metal which is exposed to corrosive environments. This corrosion and chemical resistant primer can be used on interior or exterior surfaces. This epoxy primer provides the foundation necessary to support high performance epoxy or urethane top coat systems.

Recommended For:

- Protecting ferrous and nonferrous metals on interior and exterior surfaces
- For use on tanks, equipment, structural or support steel, bar joists, roof decks, catwalks, stairs, piping, towers buildings, lockers, and doors
- For protecting food processing plants, chemical plants, marine, bottling plants, fertilizer plants, sugar mills, water and waste treatment plants, and power plants

Limitations:

- Not to be applied over conventional coatings without prior testing

Product Information

Mixing Instructions:

This two-component product is mixed as a 1 to 1 ratio by volume of components "A" to "B." First, mix each component separately until uniform, then combine components "A" and "B" and mix thoroughly (5 minutes) or until homogeneous. For best results, use a spiral mixing blade in a variable speed (400-600 rpm) electric drill. Place the spiral mixing blade at the bottom of the container before turning on the mixer. This will help avoid inducting air into the material. Inducted air will cause "bubbles" in the coating when applied. Gently move the mixer head up to the surface while running. Do not remove the head while it is still spinning. Allow the combined components to sit for an induction time of 30 minutes, then lightly stir again to ensure uniformity. This product has a workable pot life of 5 1/2 hours at 70° F. Applying the material immediately after the 30 minute's induction time will provide best results.

Colors: *MUST BE MIXED WITH DM34-84 CATALYST*

—Standard: DM33-20 Red

DM33-70 Gray

—Special Colors: Contact your Benjamin Moore & Co. Representative.

Certification:

Formulated without lead, mercury, or chromates.
Does not contain any ozone-depleting substances, either Class I or Class II.

Technical Data	Gray
Generic Type	Polyamide Epoxy
Pigment Type	Titanium Dioxide, Corrosion Inhibitors & Select Inerts
Volume Solids (mixed as recommended)	59%
Theoretical Coverage	475 sq. ft./gal. @ 2.0 Mils
Film Thickness – Wet	2.5 – 4.2 Mils
– Dry	1.5 – 2.5 Mils
Dry Time @ 70° F – To Touch	1½ Hours
– To Recoat	4 Hours
Dries By	Chemical Cure
Dry Heat Resistance	400° F
Viscosity (mixed as recommended)	90 ± 5 KU
Flash Point (Seta)	78° F
60° Specular Gloss – Flat	10% Max.
Surface Temperature At Application – Min.	60° F
– Max.	90° F
Surface must be dry and at least 5° above the dew point.	
Reducer	N/A
Reduction* – Brush	Do not thin
– Roller	Do not thin
– Spray	Do not thin
Clean Up Thinner	M95
Mixing Ratio	1:1
Induction Time	30 Minutes
Pot Life @ 70° F	5½ Hours
Weight Per Gallon (mixed as recommended)	11.4 lbs.
Storage Temperature – Min.	40° F
– Max.	90° F

Analysis:

(typical — may vary by color)

DM33-70 H *as mixed with DM34-84 H*

Pigment: 43.1%
- Titanium Dioxide 25.0%
- Inert Pigment 75.0%

100.0%

Vehicle: 56.9%
- Polyamide Epoxy Resin 55.4%
- Solvents & Additives 44.6%

100.0%

Volatile Organic Compounds (VOC)

**Unthinned	Grams/Liter	339
	Lbs./Gal.	2.83

*** Contact Benjamin Moore & Co. for actual levels, which may or may not be substantially less than stated.*

TDSDM33/DM34D

Surface Preparation

Bare Steel
All surfaces shall be free of rust, millscale and contaminants such as oil, grease, dirt, and salts. Before any surface preparation is attempted, oil and grease must be removed by employing SSPC-SP1 Solvent Cleaning. For large areas, use Oil & Grease Emulsifier (M83).

For Best Performance
Use Commercial Blast Cleaning to SSPC-SP6 to remove millscale, rust, and other contaminants and leave a roughened surface.
Use Power Tool Cleaning to Bare Metal SSPC-SP11 to remove millscale, rust, and other contaminants and leave a roughened surface.

Aluminum and Galvanized Steel
Degrease carefully by solvent cleaning or commercial degreasers and lightly roughen the surface with Scotch-Brite™ Pads (3M™).

WARNING! If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application Information
Generally, this paint is best applied by spray. Due to the rapid dry of this coating, only small areas may be coated by brush, applicator pad, or roller. Care must be taken to achieve the specified wet and dry film thicknesses. Uniform, even coats must be obtained.

Application Equipment
Air or airless spray, brush or roller.

Air Spray Equipment Recommendations: Binks Model 62 Spray Gun or equivalent.

Fluid Nozzle	Air Nozzle	Atomizing Air Pressure (Measured at gun inlet)	Fluid Pressure
63CSS (.046")	63 PB	45 PSI	10 PSI

Notes: Do not exceed pot life. Use stainless steel fluid supply components.
Low temperatures or longer hoses require higher pot pressure. Proper atomization is necessary to obtain a smooth finish.

Airless Spray Equipment Recommendations: Binks Airless 1 Spray Gun or equivalent.

Airless Tip Orifice	Fluid Pressure	Binks Tip No.
.015" – .021"	2,000 – 2,500 PSI	9 – 1560 / 9 - 2150

Notes: Do not exceed pot life. Use stainless steel fluid supply components.

Roller Use a 1/4" nap synthetic cover. Do not use medium or long nap roller covers.

Clean Up Instructions
For solvent based coatings, clean all equipment immediately after use with the reducer or solvent specified for the product being used. At the same time, flush out all fluid lines and carefully clean pressure pots. Use clean solvent only. It is also good practice to periodically clean the spray tip or the fluid tip/air cap combination during the course of the working day shift.

Environmental, Health & Safety Information
DANGER! FLAMMABLE LIQUID AND VAPOR! HARMFUL IF INHALED HARMFUL IF SWALLOWED MAY CAUSE ALLERGIC SKIN REACTION

Contains xylene (xylol), n-butyl alcohol, epoxy resin, and crystalline silica: MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE, OR NAUSEA. MAY CAUSE EYE, SKIN, NOSE, AND THROAT IRRITATION.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of both components. Before opening packages, read all warning labels. Follow all precautions.

NOTICE: Repeated and prolonged exposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness, and loss of coordination are signs that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Cancer Hazard: contains crystalline silica which can cause cancer when in respirable form.

Keep away from heat, sparks, and flame. Vapors may cause flash fire. Close container after each use. Use only with adequate ventilation. Do not breathe vapors, spray mist, or sanding dust. Do not get in eyes or on skin.

WEAR A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH for use with paints , eye protection, gloves, and protective clothing during application (or sanding) and until all vapors and spray mist are exhausted. In confined spaces or in situations where continuous spray operations are typical, or if proper respirator fit is not possible, wear a positive-pressure, supplied air respirator NIOSH. In all cases, follow respirator manufacturer's directions. Do not permit anyone without protection in the painting area.

FIRST AID: If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and call a physician. For skin, wash thoroughly with soap and water. In case of ingestion, DO NOT induce vomiting. Call physician immediately.

IN CASE OF: FIRE – Use foam, CO_2, dry chemical, or water fog. **SPILL –** Absorb with inert material and dispose of in accordance with applicable regulations.

DISPOSAL: Empty container with product residue may still be flammable; follow all hazard statements until it has been disposed of. Contains organic solvents which may cause adverse effects on the environment if disposed of improperly. Consult your sanitation department for more information on disposal of empty containers. Disposal of wastes containing either organic solvents or free-liquids in landfills is prohibited. Contact your state-designated environmental agency for information concerning re-use, recycling, or disposal of solvent-borne paint.

FOR PROFESSIONAL USE ONLY KEEP OUT OF REACH OF CHILDREN
Refer to Material Safety Data Sheet available from your retailer for further safety and handling information.

Warranty & Limitation of Sellers Liability
All statements made on any product label, product manual, product data sheets, technical data charts or specification charts contained herein, are accurate to the best of our knowledge. The products and information are intended for use by persons having skill and know-how in the industry at their own discretion and risk. Benjamin Moore & Co. warrants only that its coatings represented herein meet the formulation standards of Benjamin Moore & Co. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Workmanship, weather, construction equipment, quality of other materials and other variables affecting the results are beyond our control. No agent, employee or representative of seller has any authority to bind seller to any affirmation, representation or warranty except as stated above.