AMERCOAT® 114 A

(Formerly Nu-Klad 114A; Also branded as Megaseal CF)

DESCRIPTION

Epoxy filler compound

PRINCIPAL CHARACTERISTICS

- Suitable for use on primed steel or direct to concrete/masonry
- Pit filler / seam sealer for steel
- Filler for bug holes and surface cracks in concrete
- Suitable as a masonry block filler / scratch coat
- Excellent chemical resistance

COLOR AND GLOSS LEVEL

- Offwhite

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	100%
VOC (Supplied)	max. 0.1 lb/US gal (approx. 15 g/l)
Theoretical spreading rate	1604 ft^2/US gal for 1.0 mils (40.0 m^2/l for 25 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

Notes:
- Flush with surrounding substrate to fill voids
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- 1.33 gallons in a 20-lb kit

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Steel

- Abrasive blast to SSPC SP-10 standards. Prepare surface in accordance with application instructions for the specific primer being used.

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Concrete

- Cure concrete a minimum of 14 days and until 80 percent of its physical properties have been attained before applying this product
- Prepared surfaces according to ASTM D4258 (surface cleaning) and either ASTM D4259 (abrading), or ASTM D4260 (acid etching)
- Blow / vacuum cracks and bugholes free of loose particulates

Concrete block

- Walls must be laid plumb and square with flush joints. Do not rake joints
- All surfaces must be clean and dry as per ASTM D4261

Substrate temperature

- Surface temperature during application should be between 50°F (10°C) and 120°F (49°C)
- Substrate temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 50°F (10°C) and 120°F (49°C)
- Relative humidity during application should be between 0% and 85%

SYSTEM SPECIFICATION

- Primers: Direct to concrete or over epoxy sealer
- Primers to steel: AMERCOAT 68HS, AMERCOAT 68MCZ, AMERCOAT epoxies, AMERLOCK series
- Topcoats: AMERCOAT Epoxies, PITTGUARD Epoxies

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 65:35

- Pre-mix pigmented components with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1–2 minutes until completely dispersed
- Scrape sides and bottom occasionally to ensure all contents are incorporated. Mix only full kits

Induction time

None

Pot life

2.5 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

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Application

- Amercoat 114A can be applied via short nap roller, trowel, putty knives, squeegee, or a combination of these methods. Spread 114A across the surface applying uniform pressure to achive a smooth finish. Leave only a slight film above the surface plane.
- A rounded trowel can be used to form a cove based of up to 1 inch.
- Amercoat 114A may be used to fill surface voids up to 1" in width or depth.
- Amercoat 114A is not elastomeric and will not bridge dynamic cracks.
- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Bulletin #1489 for further information on prevention, detection, and removal of amine blush

Material temperature

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)

Cleaning solvent

Amercoat 12 Cleaner (Thinner 90-58) or Amercoat 65 Thinner (Thinner 21-06)

ADDITIONAL DATA

Overcoating interval for DFT up to 5.0 mils (125 µm)				
Overcoating with...	**Interval**	**50°F (10°C)**	**70°F (21°C)**	**90°F (32°C)**
solvent-borne coatings	Minimum	36 hours	18 hours	9 hours
	Maximum	30 days	7 days	3 days
solvent-free epoxies	Minimum	6 hours	3 hours	1 hour
	Maximum	6 days	3 days	36 hours

Notes:

- Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window
- Surface must be clean and dry. Any contamination must be identified and removed. Particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods. If maximum recoat/topcoat time is exceeded, then roughen surface

Curing time for DFT up to 5.0 mils (125 µm)	
Substrate temperature	**Dry to handle**
50°F (10°C)	36 hours
70°F (21°C)	18 hours
90°F (32°C)	9 hours

Note: Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions

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Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
50°F (10°C)	4 hours
70°F (21°C)	2.5 hours
90°F (32°C)	1 hour

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- NFPA Class A for Flame Spread and Smoke Development
- Nuclear Service Level 2 (partial)

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

WARRANTY

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LIMITATIONS OF LIABILITY

Packaging: Available in 20-lb (1.33. gallons) and 3-lb kits (0.2 gallons)

Product code	Description
AT114-35	Epoxy Base
AT114-B	Hardener