

Wall-Gard HD

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Product Data Sheet

70714/70715 (45060) – 2K Epoxy

Base 70714 (45069) : Curing Agent 70715 (95073)



Description:	70714/70715 (Hempel 45060) is a two-component, 100% solids epoxy resin.
Recommended use:	Applications include: High-gloss, high-build protective coating; binder for self-smoothing pigmented and color quartz flooring; low-viscosity binder for trowel-applied mortar flooring systems; high-quality primer for chemical resistant urethane top coats, and/or Neogard waterproofing and flooring systems; low-viscosity binder for trowel applied mortar and/or patching material; low viscosity binder for crack injection.
Features:	Formulated for use on damp or dry concrete. Near water-clear. Exhibits no amine blush when used in humid environments. Very low viscosity for deep penetration into concrete. Uniform wetting of filler aggregates. Excellent chemical and water resistance. Meets U.S.D.A. requirements for incidental food contact. Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Certificates/approvals:	LEED: MRc5, IEQc4.2, BDc4, IDc4 MPI: MPI #212
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70714 (4506900000)	Clear and Tintable	15- and 3-gallon kits
70714-01 (4506916640)	White	15- and 3-gallon kits
70714-02 (4506916650)	Gray	15- and 3-gallon kits
70714-03 (4506923820)	Tan	15- and 3-gallon kits
70714-04 (4506916670)	Dark Gray	15- and 3-gallon kits
70714-05 (4506957930)	Tile Red	15- and 3-gallon kits
70714-11 (4506916660)	Light Gray	15- and 3-gallon kits
70714-16 (4506919990)	Black	15- and 3-gallon kits
70714-06 (4506949890)	Green	3-gallon kits
70715 (9507300000)	NA	Curing agent, included in kits

Some standard colors and/or packaging may have extended lead times and/or minimum quantities. Contact Neogard for additional colors.

Physical constants:

Tensile strength	3,700 psi	ASTM D638
Elongation	25%	ASTM D638
Compressive strength	25,300 psi	ASTM D695
Flexural strength	3,180 psi	ASTM D790
Flexural modulus	57,700 psi	ASTM D790
Water resistance	0.21%	ASTM D570
MVT at 10 mils	0.16	ASTM E96
Taber abrasion	25 mg/1,000 CS-17	ASTM D4060
Shore d	78	ASTM D2240
Adhesion	350 psi	ASTM D4541
Flammability	Pass	ASTM D635
Weight/gallon (mixed)	8.8 lbs/gal	ASTM D1475
Weight solids (mixed)	100%	ASTM D4209
Volume solids (mixed)	100%	Calculated
VOC (mixed)	<10 g/L	EPA Method 24
Flash point	>200°F/93°C	ASTM D3278
Shelf life	1 year	
Thin film cure at 75°F/23°C	8–9 hours	
Full cure at 75°F/23°C	7 days	
Full chemical resistance	7 days	

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Product Data Sheet

70714/70715 (45060) – 2K Epoxy

Base 70714 (45069) : Curing Agent 70715 (95073)



Application details:

Version, mixed product	70714/70715 (45060)
Mixing ratio:	Base 70714 (45069) : Curing Agent 70715 (95073) 2 : 1 by volume
Mixing instructions:	Pre-mix base for 3–5 minutes before adding curing agent. Mix for a minimum of 5 minutes before applying. Jiffy Mixer paddle recommended.
Application method:	Roller or squeegee
Thinner (max.vol.):	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene) (10%)
Pot life:	30 minutes at 70°F/21°C
Cleaning of tools:	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene)
Safety:	Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Surface preparation:	According to Neogard Guide Specifications.
Application conditions:	Ambient temperature must be between 40°F/4°C and 100°F/37°C, and a minimum of 5°F/3°C above dew point.
Preceding coat:	According to Neogard Guide Specifications.
Subsequent coat:	Must be recoated within 24 hours at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 70°F/21°C.

Note: **70714/70715 is for professional use only.**

Issued by: Hempel (USA) – 45060

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1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

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Product Data Sheet

70902/70910 — Floor-Gard/Wall-Gard HD, Satin
47ZJB: Base 47ZJ9 : Curing Agent 94AJB



Description:	70902/70910 (Hempel 47ZJB) is a two-component, water-based, urethane wall and floor coating.
Recommended use:	As the topcoat for the Neogard Wall-Gard HD wall coating system, and as a topcoat for many Neogard floor coating systems. Applications include: hospitals, operating rooms, pharmaceutical manufacturing facilities, clean rooms, schools, food and beverage processing facilities, and various facility wet areas.
Features:	Low odor and VOC. Resists UV. Durable; resists scrubbing.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70902-00 (47ZJ900050)	Satin Clear	3-gallon kits (mixed volume)
70910 (94AJB00000)	NA	
<i>Some standard colors and/or packaging may have extended lead times and/or minimum quantities.</i>		

Physical constants:

Taber abrasion, 1,000 cycles CS-17	20 mg loss	ASTM D4060
Pencil hardness	4H gouge	ASTM D3363
Volume solids (mixed)	53.5 %	Calculated
Weight/gallon (mixed)	9.18 lbs	ASTM D1475
VOC	<10 g/L	ASTM D3960
Shelf life	1 year	
Dry time to touch*	4–6 hours	ASTM D5895
Recoat time, tack-free*	6–24 hours	ASTM D5895
Cure time*	24 hours	
<i>*75°F/23°C, 50% relative humidity. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.</i>		

Application details:

Version, mixed product	47ZJB
Mixing ratio:	Base 47ZJ9 : Curing Agent 94AJB 2 : 1 by volume
Mixing instructions:	Pre-mix base for 3–5 minutes before adding curing agent. Mix for a minimum of 5 minutes before applying. Jiffy Mixer paddle recommended.
Application method:	Roller, brush, spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Water (10%)
Pot life:	90 minutes at 75°F/23°C
Recommended film thickness, wet:	4–6 mils
Recommended film thickness, dry:	2–3 mils
Cleaning of tools:	Water

Safety:	Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
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Surface preparation:	According to Neogard Guide Specifications.
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Preceding coat:	According to Neogard Guide Specifications.
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Product Data Sheet

70902/70910 — Floor-Gard/Wall-Gard HD, Satin
47ZJB: Base 47ZJ9 : Curing Agent 94AJB



Subsequent coat:	Must be recoated within 24 hours at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C. Prevent freezing; product will become unusable if frozen.
Remarks:	For indoor use only.

Note: **70902/70910 is for professional use only.**

Issued by: Hempel (USA) – 47ZJB

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Product Data Sheet

70900/70910 — Wall-Gard/Floor Gard HD Coating, Gloss
47DJB: Base 47DJ9 : Curing Agent 94AJB



Description: 70900/70910 (Hempel 47DJB) is a two-component, water-based, urethane wall and floor coating.

Recommended use: As the topcoat for the Neogard Wall-Gard HD wall coating system, and as a topcoat for many Neogard floor coating systems.
Applications include: hospitals, operating rooms, pharmaceutical manufacturing facilities, clean rooms, schools, food and beverage processing facilities, and various facility wet areas.

Features: Available in 24 standard colors, can be tinted.
Low odor and VOC.
Resists UV.
Durable; resists scrubbing.

Availability: Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70900-00 (47DJ900050)	Gloss Neutral	
70900-01 (47DJ910000)	Gloss White	
70900 Tint Base (47DJ900010)	Tint Base, White	4-gallon kits (mixed volume)
70910 (94AJB00000)	NA	

Some standard colors and/or packaging may have extended lead times and/or minimum quantities. Contact Neogard for available colors.

Physical constants:

Impact resistance	160 lbs/in	ASTM D2794
Taber abrasion, 1,000 cycles CS-17	67 mg loss	ASTM D4060
Pencil hardness	4H gouge	ASTM D3363
Volume solids (mixed)	55%	Calculated
Weight/gallon (mixed)	10.85 lbs	ASTM D1475
VOC	<20 g/L	ASTM D3960
Shelf life	1 year	
Dry time to touch*	6–8 hours	ASTM D5895
Recoat time, tack-free*	8–24 hours	ASTM D5895
Cure time*	24 hours	

**75°F/23°C, 50% relative humidity. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.*

Application details:

Version, mixed product	47DJB
Mixing ratio:	Base 47DJ9 : Curing Agent 94AJB 3 : 1 by volume
Mixing instructions:	Pre-mix base for 3–5 minutes before adding curing agent. Mix for a minimum of 5 minutes before applying. Jiffy Mixer paddle recommended.
Application method:	Roller, brush, spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Water (10%)
Pot life:	90 minutes at 75°F/23°C
Recommended film thickness, wet:	6–8 mils
Recommended film thickness, dry:	3–4 mils
Cleaning of tools:	Water

Safety: Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

Surface preparation: According to Neogard Guide Specifications.

Product Data Sheet

70900/70910 — Wall-Gard/Floor Gard HD Coating, Gloss
47DJB: Base 47DJ9 : Curing Agent 94AJB



Preceding coat:	According to Neogard Guide Specifications.
Subsequent coat:	Must be recoated within 24 hours at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C. Prevent freezing; product will become unusable if frozen.
Remarks:	For indoor use only.

Note: **70900/70910 is for professional use only.**

Issued by: Hempel (USA) – 47DJB

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Product Data Sheet

70901/70910 — Floor-Gard/Wall-Gard HD Coating, Semi-Gloss
47VJB: Base 47VJ9 : Curing Agent 94AJB



Description: 70901/70910 (Hempel 47VJB) is a two-component, water-based, urethane wall and floor coating.

Recommended use: As the topcoat for the Neogard Wall-Gard HD wall coating system, and as a topcoat for many Neogard floor coating systems.
Applications include: hospitals, operating rooms, pharmaceutical manufacturing facilities, clean rooms, schools, food and beverage processing facilities, and various facility wet areas.

Features: Available in 24 standard colors, can be tinted.
Low odor and VOC.
Resists UV.
Durable; resists scrubbing.

Availability: Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70901-00 (47VJ900050)	Semi-Gloss Neutral	
70901-01 (47VJ910000)	Semi-Gloss White	
70901 Tint Base (47VJ900010)	Tint Base, White	4-gallon kits (mixed volume)
70910 (94AJB00000)	NA	

Some standard colors and/or packaging may have extended lead times and/or minimum quantities. Contact Neogard for available colors.

Physical constants:

Impact resistance	160 lbs/in	ASTM D2794
Taber abrasion, 1,000 cycles CS-17	67 mg loss	ASTM D4060
Pencil hardness	4H gouge	ASTM D3363
Volume solids (mixed)	55%	Calculated
Weight/gallon (mixed)	10.85 lbs	ASTM D1475
VOC	<20 g/L	ASTM D3960
Shelf life	1 year	
Dry time to touch*	6–8 hours	ASTM D5895
Recoat time, tack-free*	8–24 hours	ASTM D5895
Cure time*	24 hours	

**75°F/23°C, 50% relative humidity. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.*

Application details:

Version, mixed product	47VJB
Mixing ratio:	Base 47VJ9 : Curing Agent 94AJB 3 : 1 by volume
Mixing instructions:	Pre-mix base for 3–5 minutes before adding curing agent. Mix for a minimum of 5 minutes before applying. Jiffy Mixer paddle recommended.
Application method:	Roller, brush, spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Water (10%)
Pot life:	90 minutes at 75°F/23°C
Recommended film thickness, wet:	6–8 mils
Recommended film thickness, dry:	3–4 mils
Cleaning of tools:	Water

Safety: Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

Surface preparation: According to Neogard Guide Specifications.

Product Data Sheet

70901/70910 — Floor-Gard/Wall-Gard HD Coating, Semi-Gloss
47VJB: Base 47VJ9 : Curing Agent 94AJB



Preceding coat:	According to Neogard Guide Specifications.
Subsequent coat:	Must be recoated within 24 hours at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C. Prevent freezing; product will become unusable if frozen.
Remarks:	For indoor use only.

Note: **70901/70910 is for professional use only.**

Issued by: Hempel (USA) – 47VJB

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Product Data Sheet

70724/70715 — Epoxy Mastic

251J1: Base 251J9 : Curing Agent 95073



Description:	70724/70715 (Hempel 251J1) is a two-component, 100% mastic epoxy resin.
Recommended use:	As a base coat in the Neogard Wall-Gard HD system, and as a grout material for 1/4" trowel systems. Also used as a semi-high-gloss, high-build protective coating that can be spray applied onto vertical surfaces at 15 to 30 mils in one pass.
Features:	No amine blush when used in humid environments. Excellent chemical and abrasion resistance. Meets U.S.D.A. requirements for incidental food contact. Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Certificates/approvals:	LEED: MRc5, IEQc4.2
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70724-01 (251J910000)	White	
70724-11 (251J916660)	Light Gray	4-gallon kit
70715 (9507300000)	NA	

Physical constants:

Tensile strength	5,000 psi	ASTM D638
Elongation at break	10%	ASTM D638
Water resistance	0.15%	ASTM D570
MVT at 10 mils	0.15	ASTM E96
Taber abrasion	50 mg/1,000 CS-17	ASTM D4060
Shore D	80	ASTM 2240
Adhesion	300 psi	ASTM D4541
Flammability	Pass	ASTM D635

Weight/gallon (mixed)	12.4 lbs/gal	ASTM D1475
Weight solids (mixed)	99.8%	ASTM D4209
Volume solids (mixed)	99.6%	Calculated
Viscosity (mixed)	5,000 cps	ASTM D2196
Flash point	>205°F/96°C	ASTM D3278
VOC (mixed)	<5 g/L	EPA Method 24

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Application details:

Version, mixed product	251J1
Mixing ratio:	Base 251J9 : Curing Agent 95073 3 : 1 by volume
Mixing instructions:	Pre-mix base for 3–5 minutes before adding curing agent. Mix for a minimum of 5 minutes before applying. Jiffy Mixer paddle recommended.
Application method:	Roller, squeegee, or spray
Thinner (max.vol.):	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene) (10%)
Pot life:	90 minutes at 75°F/23°C
Cleaning of tools:	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene)

Safety:	Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
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Surface preparation:	According to Neogard Guide Specifications.
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Product Data Sheet

70724/70715 — Epoxy Mastic

251J1: Base 251J9 : Curing Agent 95073



Application conditions:	Ambient temperature must be between 50°F/10°C and 85°F/29°C, and a minimum of 5°F/3°C above dew point.
Preceding coat:	According to Neogard Guide Specifications.
Subsequent coat:	Must be recoated within 24 hours at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 70°F/21°C.
Remarks:	Not UV-stable; apply a UV-resistant topcoat if exposed.

Note: **70724/70715 is for professional use only.**

Issued by: Hempel (USA) – 251J1

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