KARNAK
THE SEAL OF QUALITY

QUICK REFERENCE REPAIR AND COATING COVERAGE GUIDE

KARNAK
THE SEAL OF QUALITY

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Rancho Cucamonga, CA
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Certified WBENC Women's Business Enterprise

4/9/19

Metal Roofing	Coverage	5-Gal. Pails/Square	Cure Time Before Rain	Substrate Cleaner Required	Application Acceptable to Wet or Dry Surface?	Primer Required?	Application Process
Cleaning							
799 Wash-N-Prep	1 Qt. Cleans 16 Sqs.	1 Qt. Bottle Cleans 16 Sqs.					Pressure Washer / Stiff Brush
Repairs							
502MS Karna-Flex (White or Gray)	25 Lin. Ft. per Gal. with 4" wide 5540 Resat-Mat Or 20 Lin. Ft. per Gal. with 6" wide 5540 Resat-Mat		20 Min.	799 Wash-N-Prep & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair)	Wet or Dry	No	Chip Brush
505MS Karna-Flex with Acrylic Based Systems	25 Lin. Ft. per Gal. with 4" wide 5540 Resat-Mat Or 20 Lin. Ft. per Gal. with 6" wide 5540 Resat-Mat		24 Hours	799 Wash-N-Prep & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair)	Dry	No	Chip Brush
502MS Karna-Flex or 505MS Karna-Flex WB	50 Lin. Ft. per Gal. without Fabric in 6" width		20 Min. - 502MS 24 Hours - 505MS	799 Wash-N-Prep & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair)	Wet or Dry - 502 MS Dry - 505MS	No	Chip Brush
502MS Karna-Flex or 505MS Karna-Flex WB	250 Fasteners per Gallon			799 Wash-N-Prep & Pressure Wash (As indicated above)	Dry	No	Caulk Tube / Bulk Loading Applicator
5540 Resat-Mat	4" x 300' per Roll						
5540 Resat-Mat	6" x 300' per Roll						
Coating							
Aluminum							
298 Alumin-R	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
Solvent-Based							
502RC-W Self-Priming Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12-24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
502RC-W Elasto-Kote Finish	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12-24 Hours	N/A, Applied over Base Coat	Dry	Yes, 502 Base	Spray / Roll / Brush
Acrylic-Based							
404 Corrosion Proof Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
Option 1 501 Elasto-Brite (Premium)	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	N/A, Applied over Base Coat	Dry	Yes, 404 Base	Spray / Roll / Brush
Option 2 529 Renu-White (Economy)	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	N/A, Applied over Base Coat	Dry	Yes, 404 Base	Spray / Roll / Brush
Option 3 535 QS Enviro-lastic (Quick Set)	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	20 Min.	N/A, Applied over Base Coat	Dry	Yes, 404 Base	Spray / Roll / Brush
Silicone							
180 Karna-Sil Epoxy Primer (A&B)	250 Sq. Ft. per Gal.	Approx. 25 Sqs. per 10-Gal (5-Gal. Part A + 5-Gal. Part B	3 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
670HS Karna-Sil Ultra	1.5 - 3.0 Gal. per Sq	Approx. 1.5 - 3 Sqs. per 5-Gal Pail	24 Hours	N/A, Applied over Epoxy Primer	Dry	Yes, 180 Epoxy Primer	Spray / Roll / Brush
Miscellaneous							
45 Sky-Kote For Skylights Restoration	1 - 2 Gal. per Sq	Approx. 2.5 - 5 Sqs. per 5-Gal Pail	24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush

BUR / Modified Bitumen Roofing	Coverage	5-Gal. Pails/Square	Cure Time Before Rain	Substrate Cleaner Required	Application Acceptable to Wet or Dry Surface?	Primer or Base Coat Required?	Application Process
Cleaning							
799 Wash-N-Prep	1 Qt. Cleans 16 Sqs.	1 Qt. Bottle Cleans 16 Sqs.					Pressure Washer / Stiff Brush
Repairs							
19 Ultra Flashing Cement Wet/Dry	12 Lin. Ft. with 4"wide 31 Fiberglass Membrane/Gallon		0 Min.	Remove Dirt and Debris	Wet or Dry	No	Trowel
	9 Lin. Ft. with 6"wide 31 Fiberglass Membrane/Gallon		0 Min.	Remove Dirt and Debris	Wet or Dry	No	Trowel
	24 Lin. Ft. without Fabric in 6" width/Gallon		0 Min.	Remove Dirt and Debris	Wet or Dry	No	Trowel
229AR Elastomeric Trowel Grade	12 Lin. Ft. with 4"wide 31 Fiberglass Membrane/Gallon		20 Min.	Remove Dirt and Debris	Dry	No	Trowel
	9 Lin. Ft. with 6"wide 31 Fiberglass Membrane/Gallon		20 Min.	Remove Dirt and Debris	Dry	No	Trowel
	24 Lin. Ft. without Fabric in 6" width/Gallon		20 Min.	Remove Dirt and Debris	Dry	No	Trowel
502MS Karna-Flex (White, Gray or Black)	25 Lin. Ft. with 4" wide or 20 Lin. Ft. with 6" wide 5540 Resat-Mat per Gallon		20 Min.	Remove Dirt and Debris	Wet or Dry	No	Chip Brush
505MS Karna-Flex WB with Acrylic Based System	25 Lin. Ft. with 4" wide or 20 Lin. Ft. with 6" wide 5540 Resat-Mat per Gallon		24 Hours	Remove Dirt and Debris	Dry	No	Chip Brush
	50 Lin. Ft. without Fabric in 6" width per Gallon		24 Hours	Remove Dirt and Debris	Wet or Dry - 502MS / Dry 505MS	No	Chip Brush
5540 Resat-Mat	4" x 300' per Roll						
5540 Resat-Mat	6" x 300' per Roll						
Solvent-Based Primer / Emulsion Primer							
220 Fibered Emulsion (For Alligatored Surfaces)	4 Gal. per Sq.	Approx. 1.25 Sqs. per 5-Gal Pail	24 Hours	No / Free of Loose Dirt	Dry	No	Spray / Roll / Brush
Coating							
Asphalt Based							
229AR Elastomeric Brush Grade over Mod. Bit. or Smooth BUR	3 Gal. per Sq.	Approx. 1.5 Sqs. per 5-Gal Pail	24 hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
298 Alumin-R over 229AR Elastomeric Brush Grade (Allow 30-45 day cure time) or 220 Fibered Emulsion (allow 7-10 day cure time)	2 Gal. per Sq.	Approx. 2.5 Sqs. per 5-Gal Pail	24 hours	No / Free of Loose Dirt and Residue	Dry	220 or 229AR	Spray / Roll / Brush
298 Alumin-R over Existing Aluminum Coated Surface	2 Gal. per Sq.	Aprox 2.5 Sqs. per 5-Gal Pail	24 hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
Silicone Based							
180 Karna-Sil Epoxy Primer (A&B) (Opt 1)	75-150 Sq. Ft. per Gal.	Approx. 7-15 Sqs. per 10-Gal Kit (5-Gal. Part A + 5-Gal. Part B)	3 hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
405 Bond-N-Shield Base Coat (Opt 2)	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
670HS Karna-Sil Ultra	1.5 - 3 Gal. per Sq.	Approx 1.5 - 3 Sqs. per 5-Gal Pail	24 Hours	NA, Applied over Epoxy Primer or Base Coat	Dry	Yes, 180 Epoxy Primer or 405 Base Coat	Spray / Roll / Brush
Acrylic-Based							
405 Bond-N-Shield Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
501 Elasto-Brite	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	N/A, Applied over Base Coat	Dry	Yes, 405 Base	Spray / Roll / Brush

TPO/PVC/HYPALON/Concrete Roofing	Coverage	5-Gal. Pails/Square	Cure Time Before Rain	Substrate Cleaner Required	Application Acceptable to Wet or Dry Surface?	Primer Required?	Application Process
Cleaning							
799 Wash-N-Prep	1 Qt. Cleans 16 Sqs.	1 Qt. Bottle Cleans 16 Sqs.					Pressure Washer / Stiff Brush
Repairs							
502MS Karna-Flex (Any Color)	25 Lin. Ft. per Gal. with 4" wide 5540 Resat-Mat Or 20 Lin. Ft. per Gal. with 6" wide 5540 Resat-Mat		0 Min.	799 Wash-N-Prep & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair)	Wet or Dry	No.	Chip Brush
505MS Karna-Flex WB with Acrylic Bases System	25 Lin. Ft. per Gal. with 4" wide 5540 Resat-Mat Or 20 Lin. Ft. per Gal. with 6" wide 5540 Resat-Mat		24 Hours	799 Wash-N-Prep & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair)	Dry	No	Chip Brush
502MS Karna-Flex or 505MS Karna-Flex WB	50 Lin. Ft. per Gallon without Fabric in 6" width		20 Min. - 502MS 24 Hours - 505MS	799 Wash-N-Prep & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair)	Wet or Dry - 502MS / Dry 505MS	No	Chip Brush
5540 Resat-Mat	4" x 300' per Roll						
5540 Resat-Mat	6" x 300' per Roll						
Coating							
Solvent Based							
502RC-W Self-Priming Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12-24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
502RC-W Elasto-Kote Finish	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12-24 Hours	N/A, Applied over Base Coat	Dry	Yes, 502 Base	Spray / Roll / Brush
Silicone							
180 Karna-Sil Epoxy Primer (A&B)	300 Sq. Ft. per Gal.	Approx. 30 Sqs. per 10-Gal Kit (5-Gal. Part A + 5-Gal. Part B)	3 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
670HS Karna-Sil Ultra	1.5 - 3 Gal. per Sq.	Approx. 1.5 - 3 Sqs. per 5-Gal Pail	24 Hours	N/A, Applied over Epoxy Primer	Dry	Yes, 180 Epoxy Primer	Spray / Roll / Brush
Acrylic Based							
406 Tru-Grip Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	799 Wash-N-Prep	Dry	No	Spray / Roll / Brush
501 Elasto-Brite	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	N/A, Applied over Base Coat	Dry	Yes, 406 Base	Spray / Roll / Brush

EPDM Roofing	Coverage	5-Gal. Pails/Square	Cure Time Before Rain	Substrate Cleaner Required	Application Acceptable to Wet or Dry Surface?	Primer Required?	Application Process
Cleaning							
507 SPC Primer/Wash	0.2 gal per Sq.	5-Gal. Pail Cleans 25 Sqs.					Hudson-type Sprayer / Pressure Washer / Stiff Brush
Repairs							
502MS Karna-Flex	25 Lin. Ft. per Gal. with 4" wide 5540 Resat-Mat Or 20 Lin. Ft. per Gal. with 6" wide 5540 Resat-Mat		20 Min.	507 SPC Primer/Wash & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair))	Wet or Dry	No	Chip Brush
505MS Karna-Flex WB with Acrylic Based Systems	25 Lin. Ft. per Gal. with 4" wide 5540 Resat-Mat Or 20 Lin. Ft. per Gal. with 6" wide 5540 Resat-Mat		24 Hour	507 SPC Primer/Wash & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair))	Dry	No	Chip Brush
502MS Karna-Flex or 505MS Karna-Flex WB	50 Lin. Ft. per Gal. without Fabric in 6" Width		20 Min. - 502MS 24 Hours - 505MS	507 SPC Primer/Wash & Pressure Wash (When coating/repairing entire roof) or Denatured Alcohol or Acetone (Spot repair))	Wet or Dry - 502MS / Dry 505MS	No	Chip Brush
5540 Resat-Mat	4" x 300' per Roll						
5540 Resat-Mat	6" x 300' per Roll						
Coating							
Solvent Based - 3 Step System							
STEP 1 "Prime-Coat" of 502RC-W Gray Base Coat	0.5 Gal per Sq	Approx. 10 Sqs. per 5-Gal Pail	12-24 hours	507 SPC Primer / Wash	Dry	Yes, 507 SPC Primer/Wash	Spray / Roll / Brush
STEP 2 502RC-W Gray Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12-24 hours	N/A, Applied over "Prime-Coat"	Dry	No 502 Base "Prime Coat"	Spray / Roll / Brush
STEP 3 502RC-W Elasto-Kote Finish	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	12-24 hours	N/A, Applied over Base Coat	Dry	Yes, 502 Base	Spray / Roll / Brush
Silicone Based							
180 Karna-Sil Epoxy Primer (A&B)	300 Sq. Ft. per Gal.	Approx. 30 Sqs. per 10-Gal Kit (5-Gal. Part A + 5-Gal. Part B)	3 Hours	507 SPC Primer / Wash	Dry	No	Spray / Roll / Brush
670HS Karna-Sil Ultra	1.5 - 3 Gal. per Sq Ft.	Approx. 1.5 - 3 Sqs. per 5-Gal Pail	24 Hours	NA, Applied over Epoxy Primer	Dry	Yes, 180 Epoxy Primer	Spray / Roll / Brush
AcrylicBased							
407 EPDM & SPF Base Coat	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	507 SPC Primer / Wash	Dry	No	Spray / Roll / Brush
501 Elasto-Brite	1.5 Gal. per Sq.	Approx. 3 Sqs. per 5-Gal Pail	24 Hours	No	Dry	Yes, 407 Base	Spray / Roll / Brush

Film Thickness

Wet Film			Dry Film			
Gallons			Emulsions		Solvent	
Per 100 SF	Mils	Inches	Mils	Inches	Mils	Inches
1/2	8		4		6	
1	16	1/64	8		12	
1 1/2	24		12		18	1/64
2	32	1/32	16	1/64	24	
2 1/2	40		20		30	1/32
3	48		24		36	
4	64	1/16	32	1/32	48	
5	80		40		60	1/16
6	96		48		72	
7	112		56		84	
8	128	1/8	64	1/16	96	

Application Temperature Recommendations

Product Group	Recommended Storage Temp.		Required Application Temp. Range
	Min.	Max.	
Water Based Emulsions	50° F	90° F	*40° F - 120° F
Solvent Based Adhesives	50° F	90° F	**40° F - 120° F
Solvent Based Coatings & Cements	50° F	90° F	**40° F - 120° F
Polyamine/Urethane Coatings	40° F	80° F	***40° F - 100° F
Coal Tar Based Coatings	50° F	100° F	*40° F - 100° F
Aluminum Coatings	50° F	90° F	*50° F - 120° F
Acrylic Coatings	50° F	90° F	***40° F - 120° F

* The substrate, product and the ambient temperatures must be above minimum temperature.
** Application at temperatures lower than 40°F will become difficult, due to the increasein viscosity that occurs when the product temperature is lowered. Application of product at or below freezing temperatures could result in adhesive failure, unless special precautions are taken to ensure that the surface is free of moisture and/or ice crystals.
*** Apply at ambient air temperatures 5°F above dew point.

At time of manufacture, all containers were filled at the designated quantity. However, due to the reduction in volume that occurs after cooling, settling and other environmental factors, the actual volume may be less. Please see front panel of each container for content information.

Spray Tip Information & Recommendations

KARNAK Product	Tip Size Range	Working Pressure	*Hose ID Tested	Recommended Overspray During Application
#16	.049-.053	4000	1/2"	
#27	.039-.043	1500	1/2"	20%
#28	.023-.027	1500	1/2"	
#40	.043-.047	1800	1/2"	
#50	.043-.047	1800	1/2"	
#71	.049-.053	4000	1/2"	
#78	.049-.053	4000	1/2"	
#83 Spray	.049-.053	4000	1/2"	
#97	.039-.043	1500	1/2"	20%
#98	.039-.043	1500	1/2"	20%
#108	.029-.033	2500	1/2"	
#112	.031-.035	2500	1/2"	
#169	.023-.027	1500	1/2"	
#198	.049-.053	4000	1/2"	
#220	.045-.049	1800	1/2"	
#229 Spray	.039-.043	4000	1/2"	30%
#298	.043-.047	1700	1/2"	10%
#404	.023-.027	1800	1/2"	30%
#405	.023-.027	1800	1/2"	30%
#406	.023-.027	1800	1/2"	30%
#501	.043-.045	1800	1/2"	30%
#502 Base	.029-.033	3300	1/2"	
#502	.029-.033	2300	1/2"	
#529	.023-.027	1800	1/2"	30%
#535	.023-.027	1800	1/2"	30
#670HS	.030-.035	3500	3/4"	

*Hose length used for testing was 81'.

Products applied using a Graco GH 833 Airless Sprayer and 1/2" diameter hose (670HS applied using GH 933 and 3/4" hose). Contact spray equipment manufacturer for more complete information.

First 100' of hose using a Graco GH833 Aireless Sprayer and 1/2" diameter hose. Contact spray equipment manufacturing for more information.

Better to increase tip size first before increasing pressure to eliminate overspray.