

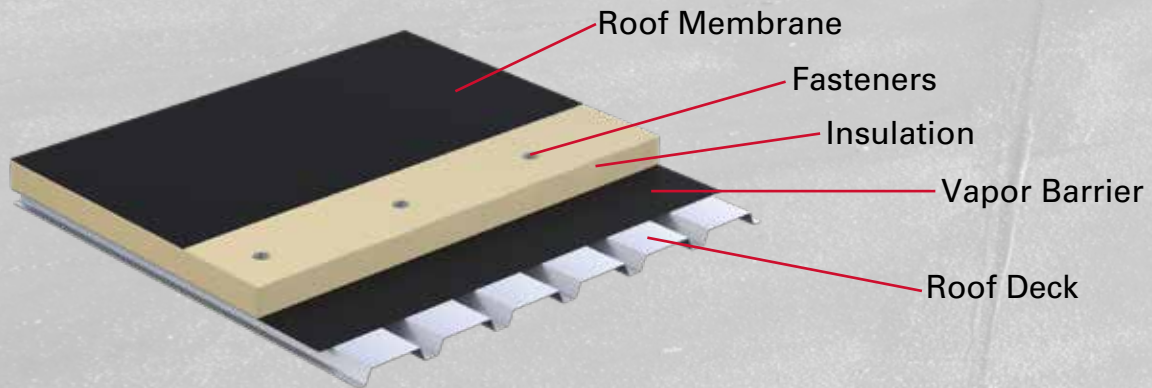


# KARNAK

## Repair Solutions Guide

800-526-4236 [karnakcorp.com](http://karnakcorp.com)

Our goal is to proactively maintain the roof so leaks do not occur, thus avoiding the collateral damage that cost building owners thousands of dollars each year. This KARNAK Repair Solutions Guide will help identify the correct product to repair and coating system to apply over top for maximum roof performance.



The roof membrane is the intended barrier to keep water out of the roof system and from entering the space below. Water that breaches the roof membrane (e.g. a leak) will affect each roof system component differently.

- Fasteners: Causes rusting and corrosion of metal fasteners reducing their ability to secure the roof system
- Insulation: Saturates insulation leading to deterioration and reduced R-value (insulation performance)
- Vapor Barrier: Accelerated deterioration, reducing its effectiveness to manage vapor flow
- Roof Deck: Rusting and corroding metal decks, supporting structures, decay and rotting of wood decks, and spalling of concrete decks

Commercial low slope roofs are typically composed of a roof deck, vapor barrier, insulation and roof membrane. All components under the roof membrane will be adversely affected by prolonged exposure to water. The components may be affixed using adhesives or fasteners, depending on the specific component. These components must remain dry in order to perform as intended and provide their designed service life.

### Repair Solutions by Substrate

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|                                |           |                                |           |
|--------------------------------|-----------|--------------------------------|-----------|
| <b>Asphalt</b> _____           | <b>4</b>  | <b>Metal</b> _____             | <b>18</b> |
| Splits in Roof                 |           | Fastener Backout or Failure    |           |
| Seams Opening                  |           | Gasket Failure                 |           |
| Alligatoring                   |           | Horizontal Seams               |           |
| Granule Loss                   |           | Vertical Seams                 |           |
| Ponding Water                  |           | Ridge Degradation              |           |
| Puncture Holes                 |           | Flashing Failures              |           |
| Worn Flashings                 |           | Rust Holes                     |           |
| Penetration Pockets            |           | Existing Coating Deterioration |           |
| Blisters                       |           | Emergency Repair               |           |
| Existing Coating Deterioration |           |                                |           |
| Emergency Repair               |           |                                |           |
| <b>Single Ply</b> _____        | <b>10</b> | <b>Spray Foam</b> _____        | <b>24</b> |
| Splits in Roof                 |           | Splits in Roof                 |           |
| Seams Opening                  |           | Existing Coating Deterioration |           |
| Ponding Water                  |           | Holes                          |           |
| Puncture Holes                 |           | Blisters                       |           |
| Worn Flashings                 |           | Ponding Water                  |           |
| Deteriorated Surface           |           | Emergency Repair               |           |
| Emergency Repair               |           |                                |           |
| <b>EPDM</b> _____              | <b>14</b> | <b>Concrete</b> _____          | <b>28</b> |
| Splits in Roof                 |           | Cracks                         |           |
| Seams Opening                  |           | Spalling                       |           |
| Ponding Water                  |           | Deteriorated Surface           |           |
| Puncture Holes                 |           | Ponding Water                  |           |
| Worn Flashings                 |           | Existing Coating Deterioration |           |
| Deteriorated Surface           |           | Emergency Repair               |           |
| Tenting                        |           |                                |           |
|                                |           | <b>Parapet Walls</b> _____     | <b>32</b> |
|                                |           | Cracked Copings                |           |
|                                |           | Cracked Masonry Wall           |           |
|                                |           | Porous Wall                    |           |
|                                |           | Spalling                       |           |

## POTENTIAL DAMAGE IMPLICATIONS

### SPLITS IN ROOF



Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
leads to loss of R-value

### SEAMS OPENING



Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
leads to loss of R-value

### ALLIGATORING



Asphalt deterioration  
which can lead to premature failure of roof

### GRANULE LOSS



Asphalt deterioration  
which can lead to premature failure of roof

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Asphalt Roofs

## REPAIR PRODUCT SOLUTIONS

19 Ultra Rubberized Flashing Cement



229AR Elastomeric Trowel



502MS Karna-Flex



505MS Karna-Flex WB



5540 Resat-Mat  
(Fabric required when making all repairs)

## RESTORATION SYSTEM SOLUTIONS

Elastomeric Aluminum .....

Acrylic .....

Thermoplastic Rubber .....

Silicone .....

## FINISH COAT

298 Alumin-R

501 Elasto-Brite

502 Elasto-Kote

670HS  
Karna-Sil Ultra



19 Ultra Rubberized Flashing Cement



229AR Elastomeric Trowel



502MS Karna-Flex



505MS Karna-Flex WB



5540 Resat-Mat  
(Fabric required when making all repairs)

Elastomeric Aluminum .....

Acrylic .....

Thermoplastic Rubber .....

Silicone .....

298 Alumin-R

501 Elasto-Brite

502 Elasto-Kote

670HS  
Karna-Sil Ultra



19 Ultra Rubberized Flashing Cement



229AR Elastomeric Trowel



502MS Karna-Flex



505MS Karna-Flex WB



5540 Resat-Mat  
(Fabric required when making all repairs)

Elastomeric Aluminum .....

Acrylic .....

Thermoplastic Rubber .....

Silicone .....

298 Alumin-R

501 Elasto-Brite

502 Elasto-Kote

670HS  
Karna-Sil Ultra



298 Alumin-R



220 Fibered Emulsion



229AR Elastomeric Brush



5540 Resat-Mat  
(Fabric required when making all repairs)

Elastomeric Aluminum .....

Acrylic .....

Thermoplastic Rubber .....

Silicone .....

298 Alumin-R

501 Elasto-Brite

502 Elasto-Kote

670HS  
Karna-Sil Ultra



## POTENTIAL DAMAGE IMPLICATIONS

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### PONDING WATER



Asphalt deterioration  
which can lead to premature failure of roof

### PUNCTURE HOLES



Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

### WORN FLASHINGS















Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

Asphalt deterioration  
which can lead to premature failure of roof

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Asphalt Roofs

| REPAIR PRODUCT SOLUTIONS  | RESTORATION SYSTEM SOLUTIONS  | FINISH COAT   |
|---|---|---|
| 229AR Elastomeric Brush<br>5540 Resat-Mat<br>(Fabric required when making all repairs)  |  Elastomeric Aluminum .....<br>Silicone .....  | 298 Alumin-R<br>670HS<br>Karna-Sil Ultra   |
| 19 Ultra Rubberized Flashing Cement<br>229AR Elastomeric Trowel<br>502MS Karna-Flex<br>505MS Karna-Flex WB<br>5540 Resat-Mat<br>(Fabric required when making all repairs) |     Elastomeric Aluminum .....<br>Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone .....        | 298 Alumin-R<br>501 Elasto-Brite<br>502 Elasto-Kote<br>670HS<br>Karna-Sil Ultra   |
| 19 Ultra Rubberized Flashing Cement<br>229AR Elastomeric Trowel<br>502MS Karna-Flex<br>505MS Karna-Flex WB<br>5540 Resat-Mat<br>(Fabric required when making all repairs) |     Elastomeric Aluminum .....<br>Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 298 Alumin-R<br>501 Elasto-Brite<br>502 Elasto-Kote<br>670HS<br>Karna-Sil Ultra  |

## POTENTIAL DAMAGE IMPLICATIONS

### PENETRATION POCKETS



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### BLISTERS



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### EXISTING COATING DETERIORATION



Asphalt deterioration  
which can lead to premature failure of roof





















### EMERGENCY REPAIR



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

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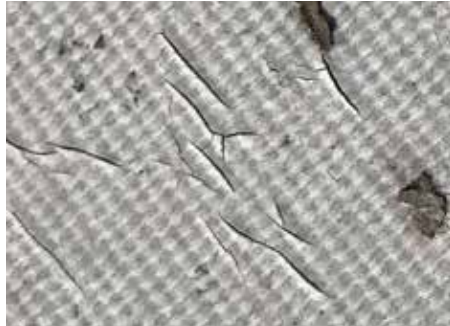
# Asphalt Roofs

| REPAIR PRODUCT SOLUTIONS   | RESTORATION SYSTEM SOLUTIONS  | FINISH COAT   |
|--|---|---|
| <p>229AR Elastomeric Trowel </p> <p>5540 Resat-Mat<br/>(Fabric required when making all repairs)</p> <p>Note: Gravel is to be removed and the roof flood coated with asphalt emulsion first before applying any of the coating systems.</p>   | <p>Elastomeric Aluminum .....</p> <p>Acrylic .....</p> <p>Thermoplastic Rubber .....</p> <p>Silicone .....</p>                | <p>298 Alumin-R </p> <p>501 Elasto-Brite </p> <p>502 Elasto-Kote </p> <p>670HS<br/>Karna-Sil Ultra </p>         |
| <p>19 Ultra Rubberized Flashing Cement </p> <p>229AR Elastomeric Trowel </p> <p>502MS Karna-Flex </p> <p>505MS Karna-Flex WB </p> <p>5540 Resat-Mat<br/>(Fabric required when making all repairs)</p> | <p>Elastomeric Aluminum .....</p> <p>Acrylic .....</p> <p>Thermoplastic Rubber .....</p> <p>Silicone .....</p>                | <p>298 Alumin-R </p> <p>501 Elasto-Brite </p> <p>502 Elasto-Kote </p> <p>670HS<br/>Karna-Sil Ultra </p>        |
| <p>298 Alumin-R (No ponding) </p> <p>Acrylic (No ponding)</p> <p>5540 Resat-Mat<br/>(Fabric required when making all repairs)</p>   | <p>Elastomeric Aluminum .....</p> <p>Acrylic .....</p> <p>Thermoplastic Rubber .....</p> <p>Silicone (Ponding Okay) .....</p> | <p>298 Alumin-R </p> <p>501 Elasto-Brite </p> <p>502 Elasto-Kote </p> <p>670HS<br/>Karna-Sil Ultra </p> |
| <p>19 Ultra Rubberized Flashing Cement </p> <p>502MS Karna-Flex </p>   | <p>N/A</p>  |   |

## POTENTIAL DAMAGE IMPLICATIONS

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### SPLITS IN ROOF



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### SEAMS OPENING



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### PONDING WATER



Membrane deterioration  
which can lead to premature failure of roof

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Single Ply Roofs

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## TOP COAT

502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



Silicone .....

670HS  
Karna-Sil Ultra



Thermoplastic Rubber .....

502 Elasto-Kote



## POTENTIAL DAMAGE IMPLICATIONS

### PUNCTURE HOLES



Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

### WORN FLASHINGS



Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

Membrane deterioration  
which can lead to premature failure of roof

### DETERIORATED SURFACE



Water leaks into roof system  
can lead to mold and rot

Membrane deterioration  
which can lead to premature failure of roof

### EMERGENCY REPAIR



Water leaks into roof system  
can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Single Ply Roofs

| REPAIR PRODUCT SOLUTIONS   | RESTORATION SYSTEM SOLUTIONS                                  | FINISH COAT   |
|--|---|---|
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)     | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)     | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs) | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra  |
| 502MS Karna-Flex <br>5540 Resat-Mat<br>(Fabric required when making all repairs)  | N/A   |   |

## POTENTIAL DAMAGE IMPLICATIONS

### SPLITS IN ROOF



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### SEAMS OPENING



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### PONDING WATER



Membrane deterioration  
which can lead to premature failure of roof

### PUNCTURE HOLES



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# EPDM Roofs

| REPAIR PRODUCT SOLUTIONS   | RESTORATION SYSTEM SOLUTIONS                                  | FINISH COAT   |
|--|---|---|
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)           | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)           | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 670HS Karna-Sil Ultra   | Thermoplastic Rubber .....<br>Silicone .....                  | 502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra    |
| 502MS Karna-Flex <br>502MS 505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs) | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra  |

## POTENTIAL DAMAGE IMPLICATIONS

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### WORN FLASHINGS



Water leaks into roof system  
Can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

Membrane deterioration, which can lead to  
premature failure of roof

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### DETERIORATED SURFACE



Membrane deterioration, which can lead to  
premature failure of roof

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### TENTING


















Water leaks into roof system  
Can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

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For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# EPDM Roofs

| REPAIR PRODUCT SOLUTIONS   | RESTORATION SYSTEM SOLUTIONS                                  | FINISH COAT   |
|--|---|---|
| 502MS Karna-Flex <br>502MS 505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs) | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)       | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)   | Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra  |

## POTENTIAL DAMAGE IMPLICATIONS

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### FASTENER BACKOUT OR FAILURE



Leaks into interior of structure

Rust formation

Saturated or wet insulation (if present)  
Leads to loss of R-value

### GASKET FAILURE



Leaks into interior of structure

Water into roof system

Promotion of rust

### HORIZONTAL SEAMS FAILURE





















Leaks into interior of structure

Rust formation

Saturated or wet insulation (if present)  
Leads to loss of R-value

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Metal Roofs

| REPAIR PRODUCT SOLUTIONS  | RESTORATION SYSTEM SOLUTIONS   | FINISH COAT   |
|---|--|---|
| <p>502MS Karna-Flex </p> <p>505MS Karna-Flex WB </p> <p>Note: Loose or damaged fasteners must be replaced with new, larger fasteners before using repair product.</p> | <p>Elastomeric Aluminum .....</p> <p>Acrylic .....</p> <p>Thermoplastic Rubber .....</p> <p>Silicone .....</p> | <p>298 Alumin-R </p> <p>501 Elasto-Brite </p> <p>502 Elasto-Kote </p> <p>670HS Karna-Sil Ultra </p>         |
| <p>502MS Karna-Flex </p> <p>505MS Karna-Flex WB </p> <p>5540 Resat-Mat<br/>(Fabric required when making all repairs)</p>  | <p>Elastomeric Aluminum .....</p> <p>Acrylic .....</p> <p>Thermoplastic Rubber .....</p> <p>Silicone .....</p> | <p>298 Alumin-R </p> <p>501 Elasto-Brite </p> <p>502 Elasto-Kote </p> <p>670HS Karna-Sil Ultra </p>      |
| <p>502MS Karna-Flex </p> <p>505MS Karna-Flex WB </p> <p>5540 Resat-Mat<br/>(Fabric required when making all repairs)</p>  | <p>Elastomeric Aluminum .....</p> <p>Acrylic .....</p> <p>Thermoplastic Rubber .....</p> <p>Silicone .....</p> | <p>298 Alumin-R </p> <p>501 Elasto-Brite </p> <p>502 Elasto-Kote </p> <p>670HS Karna-Sil Ultra </p> |

## POTENTIAL DAMAGE IMPLICATIONS

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### VERTICAL SEAMS FAILURE



Leaks into interior of structure

Rust formation

Saturated or wet insulation (if present)  
Leads to loss of R-value

### RIDGE CAP FAILURE



Leaks into interior of structure

Rust formation

Saturated or wet insulation (if present)  
Leads to loss of R-value

### FLASHING FAILURES AT PENETRATIONS, HVAC EQUIPMENT, CURB FLASHINGS





















Leaks into interior of structure

Rust formation

Saturated or wet insulation (if present)  
Leads to loss of R-value

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Metal Roofs

| REPAIR PRODUCT SOLUTIONS  | RESTORATION SYSTEM SOLUTIONS  | FINISH COAT   |
|---|---|---|
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(For seams with gaps 1/16" or greater secure roof panel and seal using fabric reinforcement) | Elastomeric Aluminum .....<br>Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 298 Alumin-R <br>501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra          |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)  | Elastomeric Aluminum .....<br>Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 298 Alumin-R <br>501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra        |
| 502MS Karna-Flex <br>505MS Karna-Flex WB <br>5540 Resat-Mat<br>(Fabric required when making all repairs)  | Elastomeric Aluminum .....<br>Acrylic .....<br>Thermoplastic Rubber .....<br>Silicone ..... | 298 Alumin-R <br>501 Elasto-Brite <br>502 Elasto-Kote <br>670HS<br>Karna-Sil Ultra  |

## POTENTIAL DAMAGE IMPLICATIONS

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### RUST HOLES



When rust is this bad, KARNAK products will not work to repair; the panel must be replaced with the help of a roofing professional.

### EXISTING COATING DETERIORATION



Accelerated deterioration of roof surface

Promotion of rust formation

### EMERGENCY REPAIR



Leaks into the interior of structure

Previous repair done with improper materials

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Metal Roofs

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## FINISH COAT

N/A

N/A

298 Alumin-R (Existing AL Coating)



Elastomeric Aluminum .....

298 Alumin-R



Acrylic (Existing Acrylic Coating)

Acrylic .....

501 Elasto-Brite



Thermoplastic Rubber  
(Existing Thermoplastic Rubber Coating)

Thermoplastic Rubber .....

502 Elasto-Kote



Silicone (Existing Silicone Coating)

Silicone (Ponding Okay) .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



N/A

5540 Resat-Mat  
(Fabric required when making all repairs)

## POTENTIAL DAMAGE IMPLICATIONS

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### SPLITS IN ROOF



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### EXISTING COATING DETERIORATION



Saturated or wet insulation  
Leads to loss of R-value

### HOLES



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

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# Spray Foam Roofs

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## FINISH COAT

502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone (Ponding Okay) .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



## POTENTIAL DAMAGE IMPLICATIONS

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### BLISTERS



Indicates existing moisture in system

Water leaks into roof system  
Can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

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### PONDING WATER



Membrane deterioration  
which can lead to premature failure of roof rot

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### EMERGENCY REPAIR



Water leaks into roof system  
Can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

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For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Spray Foam Roofs

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## FINISH COAT

502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



## POTENTIAL DAMAGE IMPLICATIONS

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### CRACKS



Water leaks into roof system  
Can lead to mold and rot  
  
Saturated or wet insulation  
Leads to loss of R-value

### SPALLING



Accelerated deterioration of concrete

### DETERIORATED SURFACE



Accelerated deterioration of concrete

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For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Concrete Roofs

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## TOP COAT

502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Acrylic .....

501 Elasto-Brite



505MS Karna-Flex WB



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



## POTENTIAL DAMAGE IMPLICATIONS

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### PONDING WATER



Accelerated deterioration of roof surface

### EXISTING COATING DETERIORATION



Accelerated deterioration of roof surface

### EMERGENCY REPAIR



Water leaks into roof system  
Can lead to mold and rot

Saturated or wet insulation  
Leads to loss of R-value

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Concrete Roofs

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## TOP COAT

502MS Karna-Flex



Thermoplastic Rubber .....

502 Elasto-Kote



5540 Resat-Mat  
(Fabric required when making all repairs)

Silicone .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



Acrylic (No ponding) .....

501 Elasto-Brite



5540 Resat-Mat  
(Fabric required when making all repairs)

Thermoplastic Rubber .....

502 Elasto-Kote



Silicone (Ponding Okay) .....

670HS  
Karna-Sil Ultra



502MS Karna-Flex



N/A

5540 Resat-Mat  
(Fabric required when making all repairs)

## POTENTIAL DAMAGE IMPLICATIONS

### CRACKED COPINGS



- Damage to internal wall structure
- Roof leaks
- Other parapet wall issues (e.g. internal cracks and weaknesses)

### CRACKED MASONRY WALL



- Damage to internal wall structure
- Roof leaks
- Other parapet wall issues (e.g. internal cracks and weaknesses)

### POROUS WALL



- Damage to internal wall structure
- Roof leaks
- Other parapet wall issues (e.g. internal cracks and weaknesses)

### SPALLING



- Damage to internal wall structure
- Roof leaks
- Other parapet wall issues (e.g. internal cracks and weaknesses)

For complete information about our restoration systems, please contact KARNAK and/or refer to the KARNAK Systems Guide

# Parapet Walls

## REPAIR PRODUCT SOLUTIONS

## RESTORATION SYSTEM SOLUTIONS

## TOP COAT

505MS Karna-Flex WB

5540 Resat-Mat

(Fabric required when making all repairs)

Contact KARNAK for best option

505MS Karna-Flex WB

5540 Resat-Mat

(Fabric required when making all repairs)

Contact KARNAK for best option

505MS Karna-Flex WB

5540 Resat-Mat

(Fabric required when making all repairs)

Contact KARNAK for best option

505MS Karna-Flex WB

5540 Resat-Mat

(Fabric required when making all repairs)

Contact KARNAK for best option



**BEFORE**

Repair on metal roof curb:  
502MS Karna-Flex and  
Resat-Mat



**AFTER**



**BEFORE**

Gutter lining repair:  
502MS Karna-Flex



**AFTER**



**BEFORE**

Metal vent stack:  
502MS Karna-Flex and  
Resat-Mat



**AFTER**

# Before and After Solutions



**BEFORE**

Mod Bit seam repair:  
229AR Elastomeric Asphalt



**AFTER**



**BEFORE**

Pitch pan repair:  
298 Alumin-R Finish Coat



**AFTER**



**BEFORE**

Drain repair: Karna-Flex WB +  
405 Bond-N-Shield +  
505HS Mohave Coat White



**AFTER**

# KARNAK

## Corporate Office:

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karnakcorp.com

## Manufacturing/Warehouses

Clark, NJ  
Ft. Lauderdale, FL  
Chicago, IL  
Kingman, AZ

## Distribution Warehouse Locations

Renton, WA  
Rancho Cucamonga, CA  
Dallas, TX

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