



LUNCH & LEARN

Technical Services & Documents





Technical Services





Presentation Outline

- Field Reps
- 3rd Party Consultants
- Hail Expertise: Casualty Consulting Services
- Inside Technical Services: Eric Long
 - Application Guidelines
 - Coverage Rates
 - Details
 - Samples
- Tech App
- Tech Talk Video Services
- Roof Coatings 101





Roof Coatings 101

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Roof Coatings 101

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What Is Liquid Roofing, How Does It Work?

Liquid roofing (aka fluid-applied roofing) is an effective method for waterproofing and protecting...



The Pros and Cons of Butyl Roof Coating

Butyl roof coatings—also known as “butyl rubber” or “butyl rubber roofing”—are elastomeric liquid...



Silicone vs Acrylic Roof Coating: Which Is Better?

As a manufacturer of both silicone and acrylic roof coatings, we know the advantages and...

[Roof Coatings 101](#)





Tech Talk



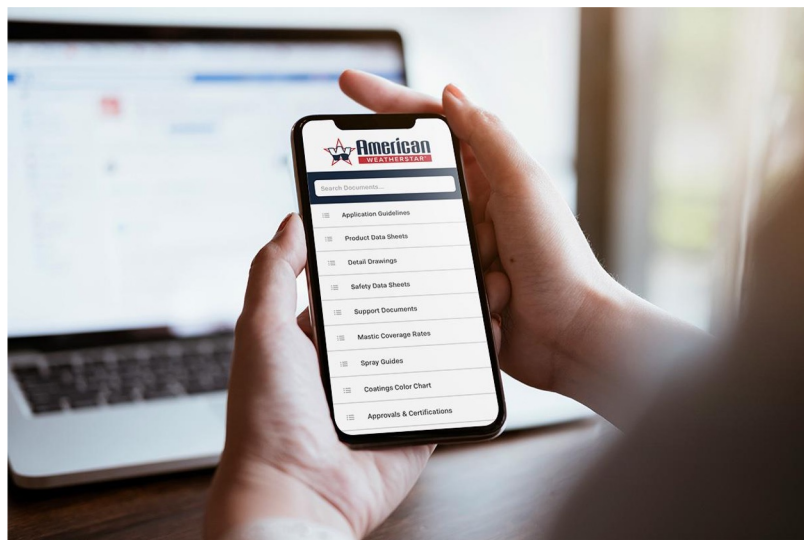
[Tech Talk](#)







App





Technical Documents





Technical Documents

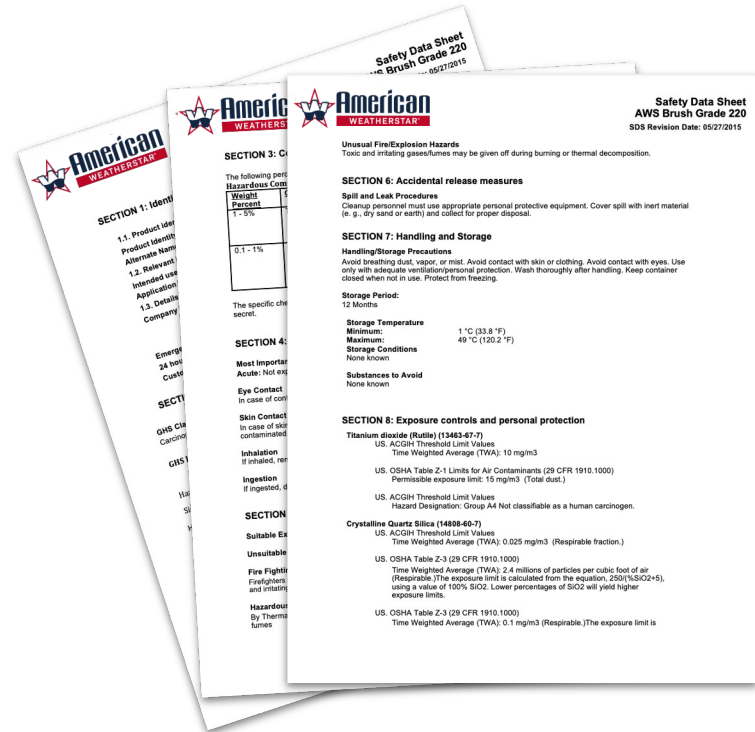
- Product Data Sheets
- Safety Data Sheets
- Roof Surface Cross Reference
- Application Guidelines
- Metal Roof Stretch Factor Guide
- Mastic Coverage Rates
- Details
- Spray Guides
- Approvals





Technical Documents

Safety Data Sheets



Technical Documents

Cross Reference Sheets

Cross Reference Sheets

Product Cross Reference Chart			
Updated 11/09/2021			
PRODUCT	DESCRIPTION	SUITABLE SURFACES	PRIMER APPROVES
ACRYLIC PRODUCTS			
ACRYLIC 211	100% acrylic elastomeric coating for all roof substrates. Contains roof protectors and glassbeads, making it ideal in the extreme cold. Its elongation and tensile strength both increase at lower temperatures.	Metal, Mud Blt, Single-Ply, SPF, Smooth/ Gravelized BUR	No
HIGH-TENSILE ACRYLIC 211	Technologically advanced, high solids, acrylic elastomer uniquely formulated with high tensile strength and elongation properties. It is our best acrylic coating for color retention on custom tile projects.	Metal, Mud Blt, Single-Ply, SPF, BUR	No
HIGH-GLOSS ACRYLIC 215	High-Gloss Acrylic 215 is a high-gloss, single-component, water-based, flexible PVC coating for stone applications. It is designed to be a one-build protective coating that provides unsurpassed weathering, abrasion resistance, colorfastness, and dirt-pull-up resistance.	Metal	No
ACRYLIC BRUSH-GRADE 220	100% acrylic elastomeric caulk used to bridge gaps in flashing, seams, fasteners and penetrations.	Metal, Mud Blt, Single-Ply, SPF, BUR	No
ACRYLIC BUTTER-GRADE 221	100% acrylic elastomeric caulk used to bridge gaps in flashing, seams, fasteners and penetrations. Whipped and thicker than Brush Grade 220.	Metal, Mud Blt, Single-Ply, SPF, BUR	No
ACRYLIC FLASHING-GRADE 222	100% acrylic, high solids, elastomeric sealant. It is manufactured from a unique acrylic resin specifically designed to provide increased tensile strength and elongation.	Metal, Mud Blt, Single-Ply, SPF, BUR	No
ACRYLIC SKYLIGHT SEALER 220	An elastomeric coating is to be used as a skylight sealer to stop the degradation of the skylights.	Skylights	NA
BUTYL PRODUCTS			
BUTYL COATING 310	This spray-applied, vapor retardant polymer provides a durable, seamless waterproofing that resists cracking and allows for normal expansion.	Metal, Mud Blt, Single-Ply, BUR	Yes*
BUTYL BRUSH-GRADE 320	Single component, brush-able grade, seam sealer specially formulated to provide a waterproof, weather resistant membrane with excellent permeability and ultra-wide protection. Specifically formulated to be as viscous than the Butyl Flashing Grade 321.	Metal, Mud Blt, Single-Ply, BUR	Yes*
BUTYL FLASHING-GRADE 321	A single component vapor barrier elastomer seam sealer specially formulated to provide a waterproof, weather resistant membrane with excellent permeability and ultra-wide protection. Specifically formulated to be thicker than the 320.	Metal, Mud Blt, Single-Ply, BUR	Yes*
SILICONE PRODUCTS			
SILICONE 410	A single component, elastomeric air-dry silicone rubber coating designed for top coating many types of roof substrates.	SPF, Single-Ply, AWS Fabric Systems	Yes*
HIGH-SOLIDS SILICONE 412	Single component, 95% solids, elastomeric, waterproofing, moisture-curing coating.	SPF, Single-Ply, Mud Blt, BUR, AWS Fabric Systems	Yes*
SILICONE WALK-PATH 415	Single-component, moisture curing, silicone rubber coating system designed to enhance the impact resistance and also provide a non-slip walking surface when used with Walk Path Granules 1100.	SPF, Single-Ply, Mud Blt, BUR, AWS Fabric Systems	Yes*
SILICONE BRUSH-GRADE 422	Ready-to-use, high solids, single component moisture cured silicone mastic designed for waterproofing penetrations, curbs, seams, and other flashings areas.	SPF, Single-Ply, Mud Blt, BUR, AWS Fabric Systems	Yes*
*When applied at appropriate thickness			



Technical Documents

Application Guidelines

Application Guidelines



Application Guideline URE-A-SIL ROOF RESTORATION SYSTEM OVER MODIFIED BITUMEN

To ensure warranty eligibility, each job must be approved by American WeatherStar before it begins.

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The intention of this guideline is to outline the procedures for the application of American WeatherStar reflective roof coatings for the purpose of coating **MODIFIED BITUMEN ROOF SURFACES**. These suggested guidelines describe materials, methods, and conditions necessary for the proper application of the American WeatherStar roof coating system. Actual application requirements may vary and are the responsibility of the contractor.
- B. This guideline may not outline all procedures for preparation and finishing of penetrations, drains, flashings, etc. This work should be outlined separately by the contractor before the work commences and shall be performed observing good trade practices.

1.02 APPROVED APPLICATOR

All American WeatherStar products shall be applied by a single, experienced, and competent contractor approved by American WeatherStar.

PART 2 - PRODUCTS

2.01 COATINGS AND RELATED MATERIALS

All materials used shall be manufactured by and or approved by American WeatherStar and shall meet the following specifications:

2.02 ELASTOMERIC COATING SYSTEM

SILICONE 410

Type: UV resistant elastomeric
Viscosity: 6000 ± 1000 cps
Elongation: 110%
Tensile strength: 500 psi
Volume solids: 85% ± 2%
Color: White, gray, tan

HIGH SOLIDS SILICONE 412

Type: UV resistant elastomeric
Elongation: 110% ± 25%
Tensile strength: 450 psi ± 50 psi
Volume solids: 95% ± 2%
Color: White, gray, and tan

URETHANE BRUSH-GRADE 522

Type: Single-component urethane flashing material
Viscosity: 30,000-40,000 cps
Elongation: 300% ± 50%
Tensile strength: 975 ± 25 psi
Volume solids: 60% ± 2%
Color: Silver

AROMATIC URETHANE 520

Type: Single-component moisture cure urethane
Viscosity: 2000 cps
Elongation: 300% ± 50%
Tensile strength: 975 ± 25 psi
Volume solids: 70% ± 2%
Color: Silver

ECOCLEANER 925

Type: Surface Cleaner
VOC: 0 grams/liter
Color: Clear

POLYESTER FABRIC

Type: Spunbound polyester
Viscosity: N/A
Tensile strength: 35 psi

Application Guideline OF RESTORATION SYSTEM OVER MODIFIED BITUMEN

ened packages, all clearly labeled
ainers or unopened containers as

id physical properties as published,
g application. Since performance of
f American WeatherStar or the
f approval by American

Inspection Report should be

er to ensure proper adhesion of the
necessary.)

ried from the roof.
200 psi shall be used to remove all
its waste products (oil, oil-based roof
f necessary to remove all
ied off the roof.

placed as necessary to match

ve to be flashed in accordance with
nufacturer's specifications.

water areas on the roof surface prior

if the American WeatherStar roof
to the manufacturer.
onal information.



Technical Documents

Metal Roof Estimating Guide

Metal Roof Estimating Guide



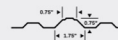
Metal Panel Stretch Factor Guide

Standard Metal Roof Panel Profiles

These are the different names and dimensions for the most common types of metal roof profiles you may encounter. Since every roof is different, we always recommend verifying the dimensions for any commercial metal roof panel before committing to any given profile measurement. Please contact Technical Services for further assistance.

AG Profile

Typically 36" wide with 5" - 1/4" ribs
Stretch factor = 1.10 X total roof area



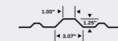
Batten Profile

Typically 16" wide
Stretch factor = 1.25 X total roof area.



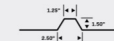
R Profile (PBR)

Typically 36" wide with 4" - 1 & 1/4" ribs
Stretch factor = 1.15 X total roof area



HI R Profile

Typically 36" wide with 4" - 1 1/4" ribs
Stretch factor = 1.15 X total roof area



Single Lock Profile

12" wide stretch factor = 1.30 X total roof area
16" wide stretch factor = 1.25 X total roof area
18" wide stretch factor = 1.225 X total roof area
24" wide stretch factor = 1.20 X total roof area



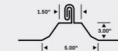
Snap Lock Profile

12" wide stretch factor = 1.30 X total roof area
16" wide stretch factor = 1.20 X total roof area
24" wide stretch factor = 1.10 X total roof area



Trapezoidal Standing Seam Profile

Typically 24" wide with 2" - 3" ribs
Stretch factor = 1.20 X total roof area



Encounter a Non-Standard Profile?

See reverse side for how to determine custom stretch factor.

www.americanweatherstar.com

Page 1 of 2

Metal Panel Stretch Factor Guide

roof's surface area is actually much
need to calculate your own stretch
factor.



When you've reached the end and make



the length.

Area = Total Coating Area

If you give me the stretch factor, in this
file will give you the total area of the
roof will need for the job. If this hypothetical

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Technical Documents

Mastic Coverage Rates

Mastic Coverage Rates

MASTIC COVERAGE RATES

ENVIR-O-SIL ROOF RESTORATION SYSTEM

Envir-O-Sil™
ROOF RESTORATION SYSTEM

The coverage rates listed on this page are estimates based on typical conditions. It is critical to check all fasteners before adding mastic to ensure they are tight. Add stitch screws at seams before applying mastic when necessary. The width of the detail may need to be wider than estimated.

MATERIAL	COVERAGE/GALLON	WIDTH	WET MILS	AVERAGE DFT	COVERAGE/5-GALLON PAIL
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SEAMS & TERMINATIONS

Silicone Brush-Grade 422	150 linear ft./gallon	4"	33	30	750 linear ft./pail
Terminator 622	150 linear ft./gallon	4"	30	30	300 linear ft./pail (2-gallon pail)

FLASHINGS, PENETRATIONS, CURBS, DRAINS, CORNERS, & SCUPPERS

Silicone Brush-Grade 422	50 linear ft./gallon	6"	65	60	250 linear ft./pail
Terminator 622	50 linear ft./gallon	6"	60	60	100 linear ft./pail (2-gallon pail)



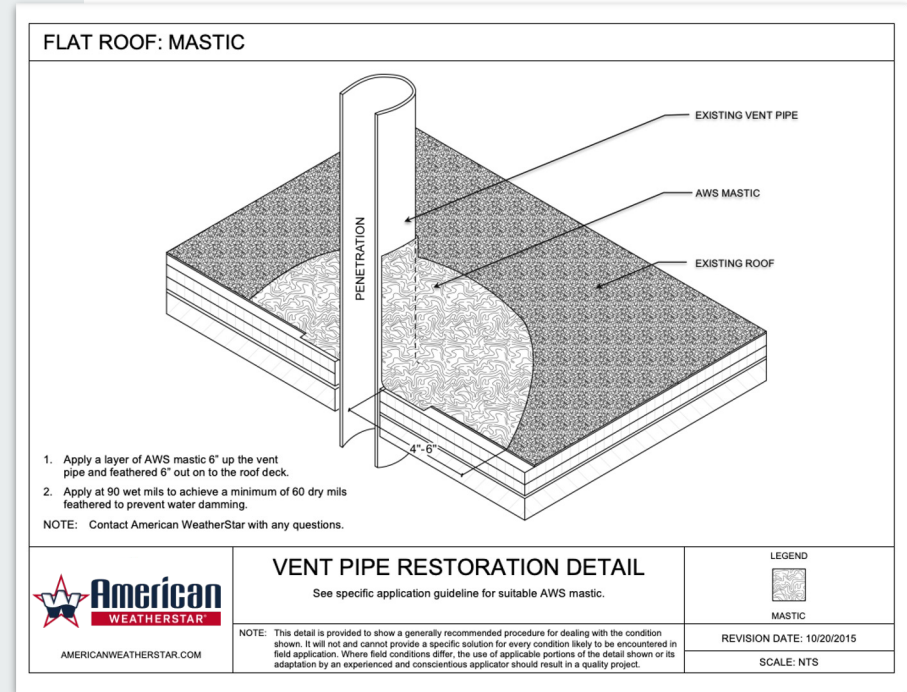
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Technical Documents

Detail Drawings

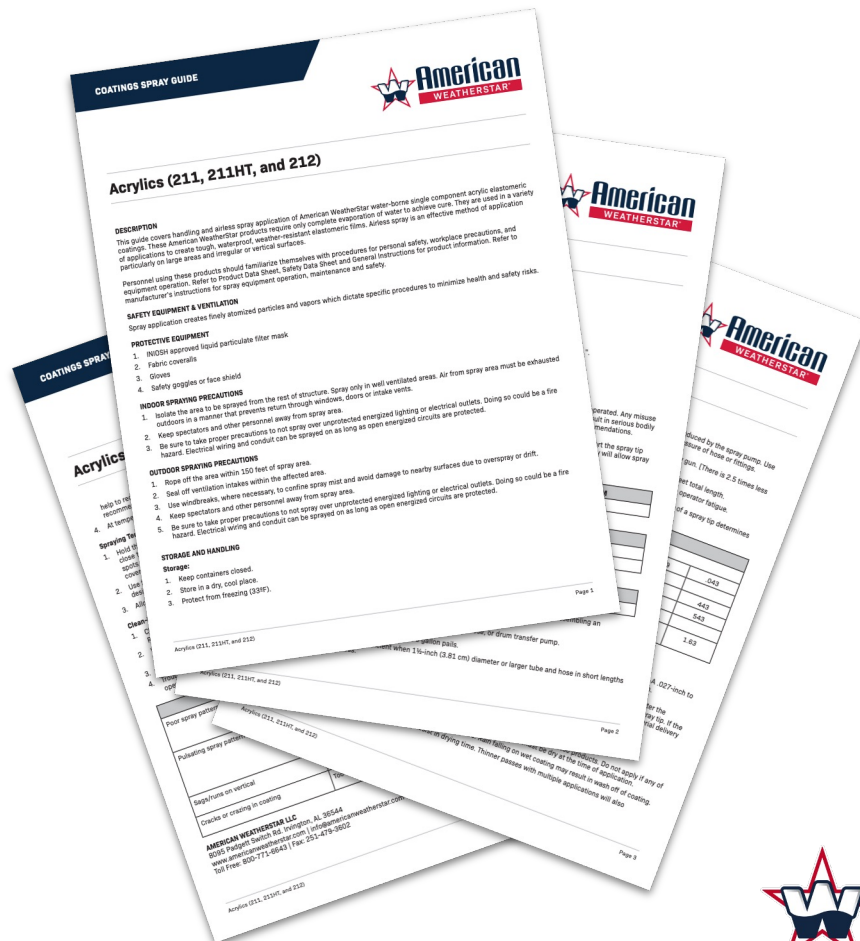
Detail Drawings



Technical Documents

Coatings Spray Guide

Coating Spray Guides





Technical Documents

Approvals





**For more information, visit our website:
www.americanweatherstar.com**

