

EPDM Recovery Initiative

Engineered Polymer Modifier

WDG's Roof Recycling Division has developed an innovative solution to help offset the environmental impact building construction has on our nation's energy use and raw material consumption. WDG has generated a system for the collection, transport and granulation of post-consumer, single-ply EPDM roof membranes into engineered polymer modifiers that can be used in a wide range of polymer systems to enhance properties and manage costs. Over time, it is possible that the EPDM powders made at WDG can be used again in the manufacture of the original extruded roof membrane products in a fully closed-loop process.

West Development Group (WDG) specializes in silicone and polyurethane foam technologies used in the roofing industry. The company is committed to sustainability and protecting the environment through ecologically sound products and practices. WDG products are developed with knowledge gained from nearly 30 years of input from roofing contractors. The WDG roof system is the only total silicone roof that makes total ecological sense. A quality silicone roof system helps save money in installation and maintenance. This one helps save the planet. Visit the WDG Web site at www.wdgsilicones.com.



The Only Total Silicone Roof
That Makes Total Ecological Sense

WDG is the environmentally responsible choice for Architects and Specifiers

Discover a greener roofing option with proven performance and real benefits. WDG is the only manufacturer that can offer a total roofing system that uses solvent-free silicone containing recycled roofing materials, reclaimed through our exclusive Roof-to-Roof (R2R™) process. WDG also utilizes environmentally friendly practices in the manufacture of our products and in our corporate operations.

Architects and specifiers can specify the full range of WDG products and roofing systems with confidence knowing that WDG backs them with helpful, knowledgeable service, documentation, training and comprehensive product warranties.

Products

Our products offer high performance, exceptional versatility, cost efficiencies and a more environmentally friendly option in roofing systems.

- The System 14™ Total Silicone Roof System – a comprehensive and completely compatible silicone roofing solution from a single source. System 14 delivers a complete range of products, including silicone sheet goods, skylight glazing, silicone sealants, SPF insulation and other products designed to handle any roofing situation.
- Solvent-free products with zero VOCs
- Products that utilize recycled roofing components including EPDM
- Products manufactured using environmentally responsible, green practices
- Comprehensive warranty options
- Products that can pay for themselves in energy savings over the life of their warranty period

Documentation

It's easy to specify WDG. We offer complete technical support and comprehensive documentation – in the formats professionals prefer.

- Comprehensive specifications conforming to or exceeding industry standards (Master Specifications, etc.) available in electronic format
- Complete product and life cycle cost documentation
- Documentation regarding pertinent testing, codes, standards and conformance to industry standards and guidelines, including ASTM, UL and FM
- CAD details in electronic format
- Written reports of comprehensive testing of finished roof assemblies by qualified inspectors
- Project case histories and testimonials
- Product binders and other technical materials, made readily available

Training

Our commitment to sustainability includes the environment, the community and the industry. WDG training programs provide valuable information about our products and roofing systems.

- Industry-sponsored training sessions for CEUs
- Contractor training programs at the PRTC
- A listing of certified contractors who have completed our training program

For more information, visit www.wdgsilicones.com
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WDG Roof-to-Roof (R2R™) Process, Patent Pending.

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Leading the Industry in Sustainable Roofing Products and Practices

WDG Product Line

WDG 3009-3 Spray Polyurethane Foam

Offering versatility through custom chemistry, WDG 3009-3 SPF is made with the highest quality base polyols and components. Part of our product line for 10 years, it delivers excellent physical properties and superior yield.

WDG 3009-3 Soy Spray Polyurethane Foam

Offering superior physical properties and outstanding fire performance, this revolutionary SPF product contains 25% rapidly renewable agricultural-based content.

WDG HP 465 Silicone Coating

This highly reflective white coating is FM/UL rated and delivers superior tensile strength. Custom colors are available.

WDG HSS 535 Solvent-Free Silicone Coating

A zero VOC coating with excellent elongation properties providing hail and impact resistance. This high solids coating also saves labor and freight cost.

WDG HSS 540 R2R™ Solvent-Free Silicone Coating

Utilizing recycled EPDM roofing material for less environmental impact and carbon footprint, HSS 540 R2R™ (Roof-to-Roof) provides hail and impact resistance, as well as excellent elongation and UV protection.

WDG 6-601 Butter Grade Sealant

Exceptionally versatile, this tough yet flexible membrane features easy application at thicknesses up to 1/4". It is also suitable for direct-to-metal (DTM) repairs.

WDG 7-702 R2R™ Silicone Sealant

Utilizes 20% recycled EPDM material for extra toughness and comes with a 50-year warranty. 7-702 R2R™ offers customizable flow, sag, and cure rates. Standard 7-701 non-EPDM sealant is available in custom colors.

WDG 8-801 Self-Leveling Sealant

This self-leveling sealant has been designed for exceptional flowability and excellent adhesion properties. May be used as a joint sealer between dissimilar building components, or as a repair material.

WDG 9-901 Silicone Adhesive

Designed for complete system compatibility, 9-901 Silicone Adhesive offers tenacious bonding and primerless adhesion. A truly exceptional product with unsurpassed bonding ability between organic and inorganic components.

WDG Z-Guard Pedestrian Traffic System

Super tough Z-Guard is very easy to apply and is available in a safety yellow color. The custom fluid application conforms to any design, and is installed up to 1/4" thick.

WDG KGF 1000 Fibered Mastic

Offering the flexibility of high build application and unmatched adhesion properties, KGF 1000 Mastic utilizes fibers for added strength.

WDG Silicone Sheet

A system-compatible flashing material providing secondary waterproofing for difficult details. This durable, flexible silicone membrane offers excellent tensile strength and elongation.

WDG Organosil Primer

This versatile primer allows for application of silicone-based products to most substrates and improves adhesion of organic products to in-place silicone.

WDG SSG-8600 Glazing

Available in sealant or coating grade, this translucent waterproofing silicone glaze/sealant puts a blanket of waterproofing over your skylight. It also features easy fluid application.


Unique problems require custom solutions.

WDG Products Are Exceptionally Versatile, Offering You More Formulas and More Options.

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West Development Group is Committed to Professional Education Programs and Scholarship Funding for the Environmental Sciences

- WDG creates and supports educational programs for architectural, consulting, engineering and design firms on the fundamental aspects of green roofing and silicone/SPF roof systems.
- WDG sponsors seminars for institutions, corporations, and various trade intellectual organizations.
- WDG made the initial contribution to the Scientia Terrae Causa Environmental Science Scholarship Fund and will donate a percentage of future sales of its environmental products, such as its solvent-free silicone roof coating, to the fund.

The Scientia Terrae Causa Environmental Science Scholarship Fund

"Knowledge for the good of the earth"

This scholarship was established by WDG, with national corporate and foundation partners, for high school students planning to pursue studies in environmental science at Ferrum College.

This scholarship fund benefits both future and current students of Ferrum College. It will provide financial help for high school students considering a career in environmental science. It will also help current Ferrum students gain practical experience through research opportunities that provide learning opportunities for students, as well as application benefits for scholarship fund partners.

Located in Ferrum, Virginia, the College's Environmental Science Program is the second-oldest academic program in the nation devoted to training environmental scientists. Only Stanford University has a longer history in this discipline.

To help further develop the next generation of environmental scientists, WDG has encouraged its business and research partners to contribute to the scholarship fund.



"Every time a roof is installed using environmental products from our total silicone roof system, our customer benefits with a quality, cost-competitive roof," said Richard West, owner of West Development Group. "Better yet, WDG contributes to the Ferrum College scholarship fund. We're committed to better roofs, a cleaner planet, and providing financial assistance to young people who want to pursue a career in environmental sciences."

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Berea City School District Re-Roof Project – Berea, Ohio

Environmentally Responsible, From Start To Finish

Project Scope:

Installation of new SPF roof systems on 11 buildings

Total project: 522,595 square feet

Roof removal: 385,000 square feet

Minimum requirement of new insulation: R-11

Project completed in 8 weeks



Berea High School

This re-roof project for the Berea City School District did a lot more than insulate and waterproof eleven buildings. This project has provided an example to the students, community, and other school districts of social and environmental responsibility.

The project earned an A+ for the three R's – Reduce, Reuse and Renew and allowed WDG to showcase some of the ways that environmental responsibility can be applied in a large-scale roof installation.

Breathe Easier With Solvent-Free Silicone

Solvent-free silicone was used as a base coat on 369,000 square feet of roof area. The use of this environmentally responsible product prevented the release of approximately 3,000 gallons of solvent into the atmosphere. That's roughly enough petroleum to drive a car around the world three times.

Some of this solvent-free silicone was manufactured using WDG's exclusive Roof-to-Roof (R2R™) process, which uses recycled EPDM roofing materials to add desired physical properties to roofing membranes. Approximately 8,000 square feet of roof membrane on Riveredge School was manufactured using this R2R process. These materials were removed from Boyle County schools in Kentucky, processed regionally in Ohio, and then incorporated into the silicone membrane installed at Riveredge.

10,000 square feet of EPDM roofing was removed from Berea City schools and is being recycled into new roofing products.

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Insulation That Delivers Benefits From The Start

The SPF insulation installed on these buildings will provide substantial energy savings over the life of the roofs. However, the environmental benefits began even before the roof systems were installed.

Approximately 15,000 square feet of insulation on Midpark High was manufactured from soy-based polyol in lieu of petroleum-based polyol.

Approximately 25% of the standard polyol used in the manufacturing of the insulation was recycled or renewable. Geo-thermal energy was used in the production of the polyol blend for the insulation. Also, all of the drums containing the polyol insulation materials were purchased recycled and further reused for new roofing products.

Providing An Education in Sustainability

In addition to providing sustainable environmental benefits, this project also contributed to the sustainability of the community. A portion of the roofing contract is being allocated to a scholarship fund at Ferrum College for students majoring in environmental sciences.



Before

Berea High School



After



Before

Midpark High School




After

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WDG Solvent-Free R2R™ Silicone

Did you know?

Every 40-yard dumpster-load of removed EPDM roofing material that is put into a landfill is equivalent in volume to four full-sized cars.

When disposed of in common landfills, EPDM takes over 10,000 years to degrade.

It is estimated that 250,000 tons of EPDM roofing materials are being put into landfills each year.

Use of solvent-free silicone on a 100,000 square foot roof prevents the release of approximately 1,000 gallons of solvent into the atmosphere – enough petroleum to drive a family sedan around the world!

Through our exclusive R2R™ (Roof-to-Roof) process, WDG is the only manufacturer to use recycled EPDM material to enhance the properties of its silicone products. WDG R2R silicone membrane is a one-of-a-kind, environmentally friendly product that is solvent-free and contains recycled EPDM roofing material.

A truly sustainable product, WDG R2R silicone membrane is:

- Environmentally beneficial
- Economically viable
- Functionally equivalent

This reclaimed material comes from old roof tear-offs. WDG processes this material and blends it into WDG solvent-free silicone for new roofing projects. The WDG R2R process improves properties of the material while preventing tons of old roofing material from being tossed into landfills.



The R2R silicone coating is now ready to be applied to create a new, high performance silicone roof.



Old EPDM roofing material is removed.



The removed EPDM roofing material is packaged for processing, then blended into R2R silicone coatings.

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"A 360-Degree Environmentally Friendly Product"

Environmentally responsible practices in the manufacturing process, and throughout WDG facilities and corporate offices, make WDG System 14™ a 360-degree environmentally friendly product.

Enough EPDM material is torn off every year to supply a major percentage of the total roofing market demand. When recycled as a reinforcing material, EPDM is more cost effective than many traditional fillers and performs as an excellent UV inhibitor.

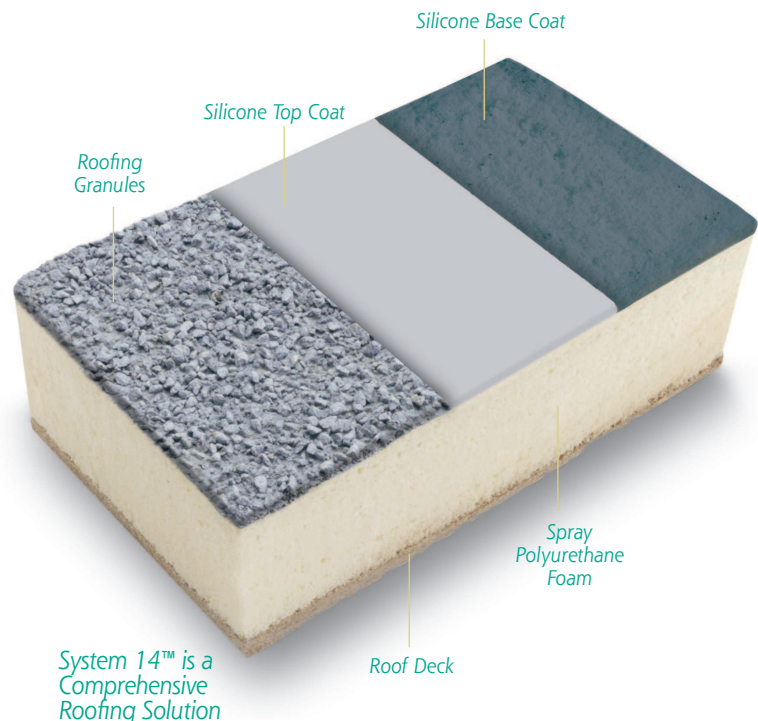
An R2R™ system is an energy-conscious system that delivers long-term performance, easy maintenance, environmentally positive results and is fully sustainable. The components are fully tested and rated and possess excellent physical properties.

Other benefits are realized in reduced transport costs of disposed materials and less strain on our already rapidly filling landfills. Use of an existing, recyclable material in manufacturing can also lead to less exploration and mining cost and less environmental impact than when conventional fillers are used.

R2R™ Silicone Roofing vs. Traditional Petroleum-Based Roofing

Silicone roofing is made from silicon metal, the second most common element on earth, making it one of the most abundant natural resources. Its recovery and processing is simple and has minimal environmental impact. The per-unit cost of silicon is low.

By comparison, traditional petroleum-based roofing has high raw material costs and high environmental impact in reclamation, processing and disposal. Petroleum supplies are growing in scarcity and are constantly impacted by volatile world politics. When petroleum prices fluctuate, so do the prices of petroleum-based roofing systems.



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Silicone & Spray Polyurethane Foam – A Sustainable, Efficient and Cost-Effective Roofing System

What Are The Advantages of a Roofing System Made With a Silicone Membrane and a Spray Polyurethane Foam (SPF) Base?

Spray Polyurethane Foam is a proven roof insulation currently in use on thousands of structures around the world. SPF offers a long list of benefits:

Seamless

SPF forms a seamless, monolithic, insulated roofing system. It has no joints or seams that often allow water and air to pass through the roofing system into the building structure. Whether a roof is 10,000 square feet or 100,000 square feet – or larger – it will have no seams. It requires no mechanical fasteners, which can also be a point of failure in roofing systems.

Watertight

Polyurethane foam is made of billions of closed cells that resist the penetration of water and vapors. It must, however, be protected by an elastomeric coating.

Eliminates Flashing Leaks

Because SPF conforms to the substrate and is a seamless system, it is ideal for flashing parapet walls, roof penetrations and roof-mounted equipment, including vents, pipes, stacks, HVAC units, skylights and cooling towers. Many roof leaks are caused by faulty flashings. SPF is virtually self-flashing and solves the problem.

Eliminates Ponding Water

In re-roofing applications, ponding of water may be eliminated by adding an increased thickness of polyurethane foam in low areas. Building up the low areas and sloping the roof so that it drains properly will eliminate ponding water and the additional load factor that is caused by water accumulation. Robotic roof application equipment featuring WDG's AutoSlope roof tapering technology assures precise foam application to create the ideal taper for maximum effective drainage.

Lightweight

The SPF system is an ideal solution for re-roofing projects, as it is often possible to apply over an existing built-up roof without removing it.

Strong, Flexible, Durable

SPF is very strong and will not sag, but is also flexible enough to allow for the normal expansion and contraction of a structure, while maintaining the ability to protect it from the outside elements. It is chemically stable and resistant to attack by mildew and fungi and non-nutritive, but must be protected from sunlight by a UV-resistant elastomeric membrane.

Beyond the features of the material, SPF offers other benefits, including:

Ease of Application

A Spray Polyurethane Foam roof can be applied in a relatively short amount of time with little or no disruption of building operations. It's often possible to apply an SPF roof over an existing built-up roof without removing it, saving time, labor and disposal costs.

Versatility

An SPF system can be used on both new and replacement roofs, whether flat, pitched, saw-toothed, domed or having unusual slopes or configurations. The spray application also makes it ideal for use on tanks, freezers, coolers, piping, ductwork and other building features.

Lower Costs

SPF roofing usually costs less to install than other roof systems because tear-off of the exterior roof is not usually required.

Ease of Maintenance

Minor repairs or modifications to a polyurethane system can be made by in-house maintenance personnel at a minimal cost.

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High R-value

R-value is the measurement of thermal resistance to heat flow. A higher R-value indicates greater insulating effectiveness. The type of material, its density and its thickness are all factors in determining R-value. SPF has an R-value of approximately +/- 6.25 per one inch of thickness enabling it to provide more thermal resistance with less material than other roof materials.

Plus, because an SPF roof system is seamless and is covered with a reflective elastomeric silicone coating, it greatly reduces the thermal shock a building experiences from fluctuation of outdoor temperatures.

The system functions to help regulate the building temperature and can reduce heating and cooling costs, saving enough energy over time to pay for the cost of the roof installation. Using less energy to heat and cool makes total ecological sense.

It's Not A Complete Roofing Solution Without The Right Waterproofing Membrane

A Silicone Membrane over an SPF roof completes the system by creating a highly flexible, durable waterproof barrier that:

- Cures quickly – usually in just a few hours
- Forms a seamless, self-flashing seal (no seams = no leak problems)
- Resists oxidation, wind-driven rain & snow and ozone
- Is impervious to water, yet vapor permeable
- Performs better than organic materials in all weather conditions
- Maintains flexibility (elastomeric properties) over a wide temperature range
- Offers resistance to cracking and peeling
- Expands and contracts with the roof's movement to resist damage
- Will not shrink, or become brittle or stiff
- Provides tremendous durability and greatly increased service life

Reflects heat and UV rays, helping to cool roof temperatures and reduce interior building temperature on hot days. It also helps prevent heat loss from inside the building on cool days.

Eliminates most tear-offs. Surface can be easily reconditioned by cleaning the surface and recoating with a fresh layer of coating – making the system completely sustainable. This recoating usually incurs a fraction of the cost of the initial installation.

Combine high-performance and environmental responsibility by choosing WDG's line of solvent-free silicone products containing recycled roofing materials reclaimed through our exclusive Roof-to-Roof (R2R™) process.

This complete system – using a silicone membrane and an SPF base – is one of the most efficient, effective and environmentally sound roofing choices available today.

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WDG Product Line

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Offering versatility through custom chemistry, WDG 3009-3 SPF is made with the highest quality base polyols and components. Part of our product line for 10 years, it delivers excellent physical properties and superior yield.

WDG 3009-3 Soy Spray Polyurethane Foam

Offering superior physical properties and outstanding fire performance, this revolutionary SPF product contains 25% rapidly renewable agricultural-based content.

WDG HP 465 Silicone Coating

This highly reflective white coating is FM/UL rated and delivers superior tensile strength. Custom colors are available.

WDG HSS 535 Solvent-Free Silicone Coating

A zero VOC coating with excellent elongation properties providing hail and impact resistance. This high solids coating also saves labor and freight cost.

WDG HSS 540 R2R™ Solvent-Free Silicone Coating

Utilizing recycled EPDM roofing material for less environmental impact and carbon footprint, HSS 540 R2R™ (Roof-to-Roof) provides hail and impact resistance, as well as excellent elongation and UV protection.

WDG 6-601 Butter Grade Sealant

Exceptionally versatile, this tough yet flexible membrane features easy application at thicknesses up to 1/4". It is also suitable for direct-to-metal (DTM) repairs.

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This self-leveling sealant has been designed for exceptional flowability and excellent adhesion properties. May be used as a joint sealer between dissimilar building components, or as a repair material.

WDG 9-901 Silicone Adhesive

Designed for complete system compatibility, 9-901 Silicone Adhesive offers tenacious bonding and primerless adhesion. A truly exceptional product with unsurpassed bonding ability between organic and inorganic components.

WDG Z-Guard Pedestrian Traffic System

Super tough Z-Guard is very easy to apply and is available in a safety yellow color. The custom fluid application conforms to any design, and is installed up to 1/4" thick.

WDG KGF 1000 Fibered Mastic

Offering the flexibility of high build application and unmatched adhesion properties, KGF 1000 Mastic utilizes fibers for added strength.

WDG Silicone Sheet

A system-compatible flashing material providing secondary waterproofing for difficult details. This durable, flexible silicone membrane offers excellent tensile strength and elongation.

WDG Organosil Primer

This versatile primer allows for application of silicone-based products to most substrates and improves adhesion of organic products to in-place silicone.

WDG SSG-8600 Glazing

Available in sealant or coating grade, this translucent waterproofing silicone glaze/sealant puts a blanket of waterproofing over your skylight. It also features easy fluid application.

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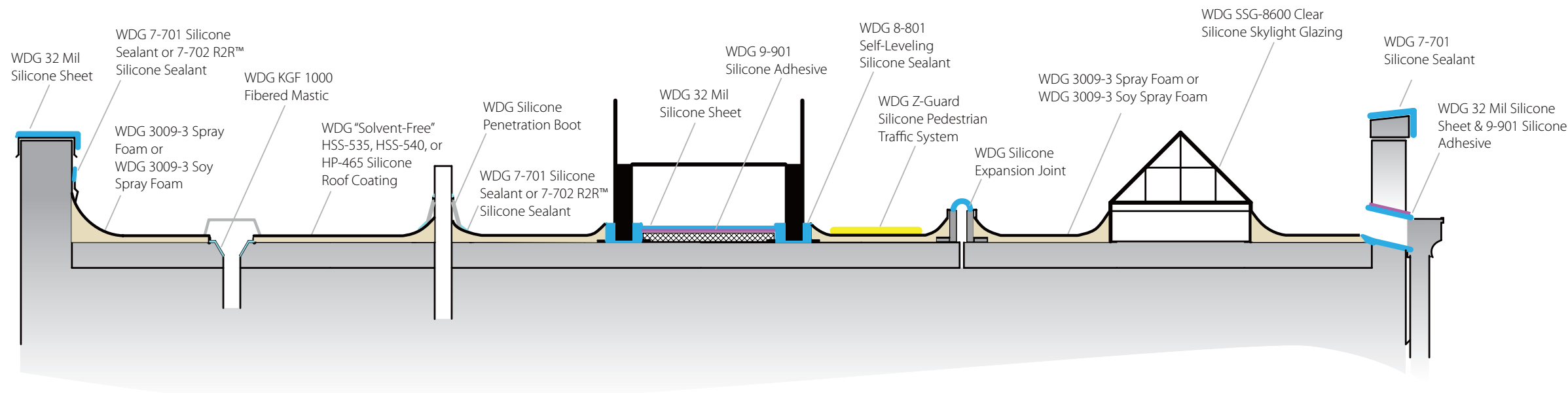
The Only Total Silicone Roof
That Makes Total Ecological Sense

Total Silicone Roof System



system 14™

The Only Total Silicone Roof That Makes Total Ecological Sense



Consider everything your flat roof has to do to perform its job everyday, for 20+ years. Your roof must:

- maintain total waterproofing
- be rated for maximum wind resistance
- expand and contract with movement
- provide proper fire resistance
- insulate your building for energy efficiency
- maintain flexibility (elastomeric properties) over a wide temperature range
- withstand foot traffic, hail, ice and other impacts

That's a big job!

Because every roof is different and offers its own unique set of challenges, a practical roofing system has to be flexible and versatile enough to handle practically any situation.

WDG System 14™ is that system. It has been designed to be a single-source solution for every roof situation and every rooftop feature. Plus, WDG System 14 offers environmentally responsible products that are economical and provide long-term performance.

WDG has designed each System 14 product to meet the specific needs of each of these challenges. Our spray in place polyurethane foam (SPF) insulation stabilizes and insulates the roof deck while providing a superior substrate for our full-line of silicone waterproofing products. The system is seamless and uses no mechanical fasteners, both of which can create trouble spots for moisture penetration and roof system failure.

The Silicone Advantage

Silicone is unsurpassed in its waterproofing/ weatherability properties. A silicone membrane over a layer of SPF completes the system by creating a highly flexible, durable barrier that:

- Cures quickly – usually in just a few hours
- Forms a seamless, self-flashing seal (no seams = no leak problems)
- Resists oxidation, wind-driven rain & snow, ozone, and many chemicals
- Performs better than organic materials in all weather conditions
- Offers resistance to cracking and peeling
- Will not shrink, or become brittle or stiff
- Reflects heat and UV rays
- Eliminates most tear-offs
- Surface can be easily reconditioned – usually incurs a fraction of the cost of the initial installation and provides years of further leak-free service

Because there's no such thing as a flat roof.

WDG System 14™ Silicone Products

Each WDG System 14 silicone product has been formulated to deliver the unique properties required to perform a specific task. A total silicone roof system allows expansion and contraction ratios to remain compatible and maintenance of all areas of the roof system to be the same.

Our **8-801 Self-Leveling Sealant** is a low-modulus, highly flexible joint compound with exceptional adhesive properties making it ideal for use in a pitch pocket surrounding deck-mounted supports. Vibrations will not cause 8-801 to settle or crack over time.

The **Z-Guard Silicone Pedestrian Traffic System** has a shore "A" hardness of 80 PSI and is trowel applied. This product is designed for use around all equipment requiring servicing as well as areas of heavy foot traffic.

Our factory-manufactured **silicone sheets** are the ideal solution for redundant waterproofing under metal wall caps or difficult access areas such as roof top equipment mounted close to the deck or scupper boxes.

Drains are designed to accept all of the water your roof is exposed to, and are the last place you want a leak to occur. **KGF 1000 Fibered Silicone Mastic** is trowel-applied up to 1/4" thick, providing extra toughness where you need it most.

Combine high performance and environmental responsibility by choosing WDG's line of solvent-free silicone products containing recycled roofing materials reclaimed through our exclusive Roof-to-Roof (R2R™) process.

A Smarter Choice – The Silicone Story

Why Silicone?

Silicone is made from silicon, the second most common element on earth (following oxygen), making it one of the most abundant natural resources.

Silicon is processed by a reaction of high purity silica with wood, charcoal or other materials in high temperature ovens. In recent years, the process has been improved to make use of the supercooling of liquids, hydrothermal energy and greater use of hydroelectric power. While the material is in a liquid state, it is treated with oxygen and air to reduce impurities and refine the material.

Processes have been developed for the recycling of silicone compounds, not only to a polymerized product condition but to base components, without producing by-products. In this way, 100% recycling efficiency is achieved. In contrast, oil-based products cannot be recycled to a base form. They remain more complex materials that are not easily refined or reused.

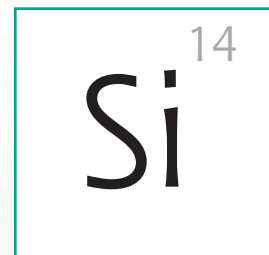
The recovery and processing of the materials used to make silicone is simple and has minimal environmental impact. The per-unit cost of silicon is so low that minor price fluctuations do not impact the cost of silicone.

Silicone roofing systems are a proven, reliable technology, currently in use on a variety of structures all over the world. In most cases, a silicone coating is applied over a Spray Polyurethane Foam (SPF) base, creating a durable, flexible and moisture-resistant seal.

Why Now?

By comparison, traditional roofing products are petroleum-based, with high raw material costs, and high environmental impact in reclamation, processing and disposal. Petroleum supplies are diminishing and are constantly impacted by volatile world politics. When petroleum prices fluctuate, the price of petroleum-based roofing systems tends to rise which also ties to higher prices in future re-roofs and repairs.

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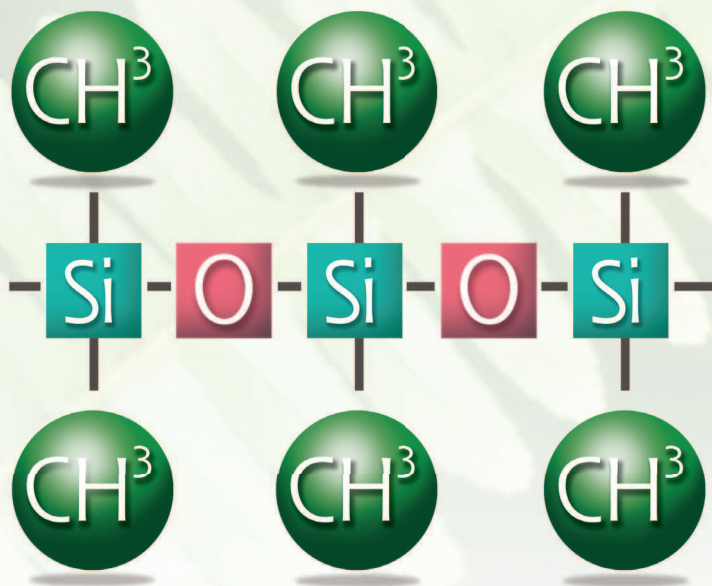
Leading the Industry in Sustainable Roofing Products and Practices

Why WDG Silicone?

WDG solvent-free R2R™ silicone coating is a one-of-a-kind, environmentally friendly product that contains recycled EPDM roofing material and no solvents.

WDG is the only manufacturer to use recycled EPDM material to add desired physical properties to its silicone products while preventing tons of old roofing material from being tossed into landfills. This reclaimed material comes from old roof tear-offs. WDG processes this material and blends it into WDG solvent-free silicone coating for new roofing projects.

In addition, environmentally responsible practices in the manufacturing process, and throughout WDG facilities and corporate offices, make WDG System 14™ a 360-degree "green" product.



For more information, visit www.wdgsilicones.com
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WDG Roof-to-Roof (R2R™) Process, Patent Pending.

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