

# **PAINT AND REPAIR** PRODUCTS

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465 Epoxy Paint / Sealer

466 Tape / Repair Kit / Scratch Removal

467 Sealant / Epoxy / Spray Foam



**EPOXY PAINTS**

Epoxy paint is recognized by the EPA as nontoxic (after curing), is extremely durable and has excellent adhesion to a wide variety of materials. Whether coating fiberglass, wood, steel, concrete or even galvanized surfaces, you won't find a better paint for aquaculture.

Simply clean and dry the surface (acid-etch concrete and steel, then use nonsudsing ammonia to neutralize acid residue and use **PT20** concrete primer; prime steel and galvanized surfaces). Then mix epoxy paint parts A and B, wait 30–60 minutes and spray, brush or roll on. Recoat after about four hours, if desired. The curing temperature range is 55–125°F. **Before adding live organisms, let cure for 7 days.** Excellent for drinking water, ozone contact, fresh and saltwater aquaculture, etc.

Kit will cover 260–288 ft<sup>2</sup> of smooth surface with a thickness of 4 mil (0.004 inch). This epoxy is 65 to 72% solids (depending on color) and has a two-year shelf life (after long exposure to UV, it typically develops a chalky surface). Sold in 120-oz kits only (a kit is 4 parts paint and 1 part activator) in the following colors:



PT2: White PT3: L. Green PT4: D. Green PT5: L. Blue PT6: D. Blue PT72: D. Red PT8: L. Gray PT9: D. Gray PT10: Black

**Note:**

Paint color shown is an approximation of the actual color. Do not use the color shown as a guide for purchases where exact color is a critical factor.

MODEL		EACH	4+
PT1	CLEAR	\$81.90	\$73.71
PT2	WHITE	81.90	73.71
PT3	LIGHT GREEN	81.90	73.71
PT4	DARK GREEN	81.90	73.71
PT5	LIGHT BLUE	81.90	73.71

MODEL		EACH	4+
PT6	DARK BLUE	\$81.90	\$73.71
PT72	DARK RED	81.90	73.71
PT8	LIGHT GRAY	81.90	73.71
PT9	DARK GRAY	81.90	73.71
PT10	BLACK	81.90	73.71



**EPOXY GEL** HAZMAT AG

A great adhesive for crack repair that works on wet or dry surfaces. An epoxy gel that is not sensitive to moisture (may not be applied underwater, however). This is great stuff for patching, gap filling, joining dissimilar materials and overhead work. It doesn't sag, run or drain into cracks. Excellent for use on concrete, wood, fiberglass and steel.

When mixed, this two part epoxy (1 to 1) is a gray-colored heavy paste. The pot life is only about 20 minutes, it hardens in six hours, can be painted over after six hours but before 48 hours, and reaches its final cure after 72 hours at room temperature.

If not painting over, wash surface thoroughly with soap and water (after 72 hours) before adding fish. Acceptable for aquatic containment under USDA guidelines. Sold in two gallon kits, Part A and Part B. Two-year shelf life. Weighs 22 lbs. Made in USA.

MODEL	EACH	4+
PT98	\$150.55	\$135.50



**STEEL PRIMER, THINNER, CLEANER, ACTIVATOR**

To thin epoxy for spraying, use **PT18**. Use **PT16** cleaner for washing out spray equipment after painting. Primer (**PT17**) should always be used before painting galvanized and bare steel surfaces (after HCl etching and nonsudsing ammonia rinsing). **PT15** activator is included with the epoxy paint and primer. Made in USA.

MODEL		SHIP WT	EACH	4+	HAZMAT	AG
PT17	PRIMER, STEEL, 120 OZ	11 LBS	\$67.81	\$61.03	HAZMAT	AG
PT18	THINNER, QUART	3 LBS	18.03	16.23	HAZMAT	A
PT16	CLEANER, QUART	3 LBS	15.66	14.09	HAZMAT	A
PT15	ACTIVATOR, 24 OZ	3 LBS	29.44	26.50	HAZMAT	A



PT18

**EPOXY CONCRETE PRIMER**

A high-performance epoxy primer and coating for concrete (more than 20 days old). Deep penetrating properties provide pore filling and strengthening of the concrete top layer, forming a strong adhesive base for surface coating.

This is an excellent sealer for epoxy paint (will not fill large pores of cinder blocks), but cannot be used over an existing water-based paint coating. It may also be used on damp (not wet) concrete. For best results, acid etch, rinse with nonsudsing ammonia and pressure wash before application. The primer is clear (consistency of water) with a pot life of 8–10 hours after mixing. One gallon will cover about 200–300 ft<sup>2</sup> with a 3- to 3.5-mil layer. One-year shelf life. Sold in 2-gallon kit only. Weighs 20 lbs. Made in USA.

MODEL	EACH	4+	HAZMAT	AG
PT20	\$133.65	\$120.29	HAZMAT	AG



# 466 PAINT AND REPAIR

Tape/Repair Kit/Scratch Removal

## FISH POND COATING, HERCO H-55 HAZMAT AG

New concrete leaches alkali, creating pH and water chemistry problems for fish. With Herco H-55 you can seal and leakproof new and old concrete, block and brick.

H-55 can be brushed, rolled or sprayed with an airless gun in two or more coats (one hour apart). One gallon covers approximately 100 sq.ft. After a 72-hour cure period, fill with water and stock with fish. Herco thinner is required for clean up and/or product thinning. Primer is not necessary but highly recommended—we cannot guarantee this product if used without primer. Herco caulk crack filler is another excellent concrete product that comes in a 12-oz tube. Made in USA. Ships Hazmat.

MODEL		SHIP WT	EACH
<b>H55B</b>	NEOPRENE COATING, BLACK, GALLON	12 LBS	<b>\$112.82</b>
<b>H55G</b>	NEOPRENE COATING, GRAY, GALLON	12 LBS	<b>128.00</b>
<b>H55C</b>	NEOPRENE COATING, CLEAR, GALLON	12 LBS	<b>128.20</b>
<b>H700</b>	CLEANER, CLEAR, GALLON	10 LBS	<b>56.40</b>
<b>H55P</b>	PRIMER, GALLON	12 LBS	<b>60.51</b>
<b>H12C</b>	CRACK FILLER, CLEAR, 12-OZ TUBE	1 LB	<b>24.62</b>



H55C



H12C

## SCRATCH REMOVAL KIT

Ideal for public and home aquariums, this kit removes scratches from acrylic and thermoplastic. Includes eight sheets of progressively graded crystal polishing pads, cotton flannel, sanding block and 3/4 oz of polishing liquid abrasive. Molded case and instructions included. Weighs 1 lb.

MODEL	EACH	4+
<b>SK1</b>	<b>\$30.16</b>	<b>\$27.76</b>



## REPAIR TAPE

Seal leaky hoses, pipes, tubing, lines and fittings with the most versatile and easy-to-use emergency repair product available. Rescue Tape is a self-fusing silicone repair product that creates a permanent, airtight, watertight seal in seconds. Leaves no sticky residue and resists fuels, oils, acids, solvents, salt water and UV rays. Insulates up to 8,000 volts, withstands up to 500°F and remains flexible to -85°F. 950-psi tensile strength.

MODEL		EACH
<b>RT1BLK</b>	BLACK, 1" X 12' X .02"	<b>\$9.95</b>
<b>RT1RED</b>	RED, 1" X 12' X .02"	<b>9.95</b>
<b>RT1WHT</b>	WHITE, 1" X 12' X .02"	<b>9.95</b>
<b>RT1CLR</b>	CLEAR, 1" X 12' X .02"	<b>9.95</b>
<b>RT1YEL</b>	YELLOW, 1" X 12' X .02"	<b>9.95</b>
<b>RT1BLU</b>	BLUE, 1" X 12' X .02"	<b>9.95</b>
<b>RT1GRN</b>	GREEN, 1" X 12' X .02"	<b>9.95</b>
<b>RT1ORN</b>	ORANGE, 1" X 12' X .02"	<b>9.95</b>
<b>RT1BRW</b>	BROWN, 1" X 12' X .02"	<b>9.95</b>
<b>RT2CLR</b>	CLEAR, 2" X 36' X .03"	<b>44.95</b>
<b>RT2WHT</b>	WHITE, 2" X 36' X .03"	<b>44.95</b>
<b>RT2BLK</b>	BLACK, 2" X 36' X .030"	<b>44.95</b>
<b>RTF4BLK</b>	BLACK TRIANGULAR F4, 1" X .02" X 36'	<b>18.25</b>
<b>RTF4RED</b>	RED OXIDE TRIANGULAR F4, 1" X .02" X 36'	<b>18.25</b>



RT1RED



RT2BLK



RT2CLR

## PIPE AND HOSE REPAIR KIT

This water-activated, fiberglass tape permanently repairs almost any piping, including plastic, copper, steel, galvanized, rubber and tile pipe. Will even work underwater! Pow-R Wrap® contains no harmful solvents and is approved for use with potable water. Each package comes premixed and premeasured to ensure a minimum of 8 complete wraps around a pipe (enough for high pressure applications up to 300 psi). Cures completely in 40 minutes.

MODEL	SIZE	MAX PIPE SIZE	EACH
<b>PW130</b>	1" X 30"	1/2"	<b>\$11.10</b>
<b>PW260</b>	2" X 60"	3/4", 1"	<b>17.27</b>
<b>PW3108</b>	3" X 108"	2", 3", 4"	<b>23.00</b>



## WATERWELD® ★ TECH FAV ▼

Makes repairs underwater in minutes! Permanently repairs pipes, fish boxes, boats, tanks, buckets, concrete, wood, fiberglass, PVC—practically anything (except most plastics like nylon and polyethylene). Sets in 20 minutes and cures hard as steel in only a few hours. Safe for carrying potable water. 2-oz tube.

MODEL	EACH	6+
8277	\$9.85	\$8.87



## UNDERWATER EPOXY ★ TECH FAV ▼

Easy-to-use, adheres to most surfaces (except soft plastics like polyethylene and nylon) and may be used underwater! Ideal for cementing aquarium rock formations, pond waterfalls and patching pipes. Sets in 20 minutes and cures fully in 24 hours. Manufacturer claims "fish safe," but we make no warranty. Made in USA.

MODEL	EACH
UP4 GRAY, 4 OZ	\$12.00
UP5 PINK, 2 OZ	9.90



UP5

## ROCKIN FOAM® SPRAY FOAM ▼

Quick-drying black foam specifically for waterfalls and water gardens. Its density is ideal for secure rock placement, leaving little waste and giving you better control during application. Nontoxic and safe for aquatic plants and animals. Tack-free in 30 minutes; can be trimmed, sanded, caulked or plastered in 1 hour. 20-oz can. Made in USA.

MODEL	EACH	4+
RCKFM20	\$17.95	\$16.16



## TECH TALK 118

### Calculation of Pond and Tank Volume

Determining the volume of your pond or tank accurately can be critical for many reasons, including sizing of pumps, piping, filters, etc., when calculating stocking rates and for correct chemical dosages.

Volume is calculated by multiplying surface area times depth. Some geometric shapes are simple to calculate, e.g., squares, rectangles and circles. Unfortunately, many ponds are free form in shape and/or have variable depths. Their volume can be estimated by dividing the pond surface into simple geometric shapes, calculating the volume of each section based on depth and adding all sections. Be sure to include the water in filters, piping, waterfalls, etc.

Alternative methods of determining the volume include:

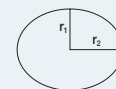
1. Checking with the contractor who built the pond for records of pond area and volume.
2. Obtaining aerial photographs from which the pond area can be estimated.
3. Surveying the ponds using a transit to determine area (get depths from topography).
4. Drawing the pond on graph paper divided into squares of known size to calculate surface area.
5. Determining the area using CAD software.
6. Filling the pond using a totalizing water meter.
7. Estimating the volume by adding a known measure of salt, then determining the volume by salinity.

The following tables present equations that are used to calculate the area and volume of various geometric shapes.

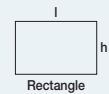
#### Area



Circle



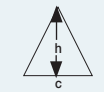
Ellipse



Rectangle



Right Triangle



General Triangle

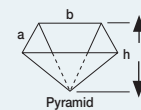


Regular Polygon

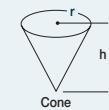
#### Volume



Cube



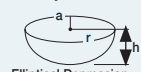
Pyramid



Cone



Cylinder



Elliptical Depression



Sphere Segment

Shape	Area Calculation	Shape	Volume Calculation
Circle	$\pi r^2$	Cube	$abc$
Ellipse	$\pi r_1 r_2$	Pyramid	$\frac{1}{3} abh$
Rectangle	$lh$	Cone	$\frac{1}{3} \pi r^2 h$
Right Triangle	$\frac{1}{2} ab$	Cylinder	$\pi r^2 h$
General Triangle	$\frac{1}{2} hc$	Elliptical Depression	$\frac{4}{9} \pi abh$
Regular Polygon	$\frac{1}{2} ns^2 \cot(180/n)$	Sphere Segment	$\frac{1}{3} \pi h^2 (3r-h)$

Volume in Cubic Feet x 7.48 = Gallons





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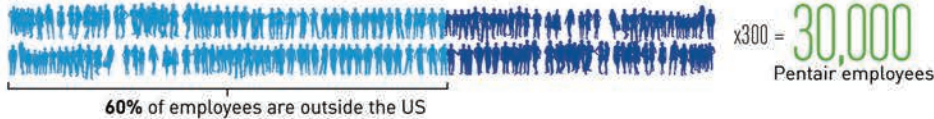


\*Restrictions apply. Please visit [pentairaes.com/signup](https://pentairaes.com/signup) for more information



# PENTAIR AT A GLANCE

## EMPLOYEES



Product availability on all **7** continents

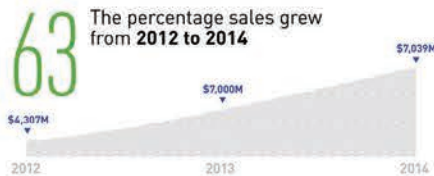
## SALES ACROSS THE GLOBE

### 2014 SALES BY REGION



**50%** US & Canada    **19%** Western Europe    **31%** Fast growth and other developed countries

## ROBUST GROWTH



## PRODUCTION



The number of seconds it takes to fill an Olympic size swimming pool with water by one of Pentair's custom-made flood protection pumps

**250 MILLION**

The number of liters of freshwater per day Pentair provides the residents of Sydney, Australia

**350,000**

The number of people in Colon, Honduras who receive clean water each day through Pentair's Project Safewater initiative



**100+** Pentair manufacturing facilities



**200,000+**

Following Pentair AES on Social Media

## INSPIRED SOLUTIONS. IMPROVING LIVES.

**75%**

of our solutions relate to food, water and energy



# PENTAIR AES 5 PILLARS

## SOLE PARTNER



### SINGLE-SOURCE PARTNER

A single-source provider of equipment, expertise and accountability for virtually all water-related applications

## VALUE



### A TEAM WITH DEEP, REAL-WORLD EXPERTISE

Former curators/operators bringing valuable expertise and experience

## INNOVATION



### PRODUCT AND SOLUTION INNOVATION

An innovator that consistently brings value to the industry and its business via new ideas, equipment and solutions for every challenge

## PERFORMANCE



### COMMITMENT ACROSS THE ENTIRE SYSTEM LIFE CYCLE

From system commissioning and start-up through maintenance and troubleshooting

## WIN RIGHT



### A COMPANY THAT WINS RIGHT

We are committed to absolute integrity, respect and performance excellence in everything we do