

FEATURES & BENEFITS

- Tintable to any color
- Does not yellow, chalk, or fade
- Breathable film protects against water infiltration
- Maintains water protection properties even when exposed to weather extremes

COMPOSITION

- One-component, water-based silicone elastomer

APPLICATIONS

- Concrete, brick, and masonry
- EIFS and cement plaster
- Previously painted surfaces
- Aggregate panels
- Stucco

PRODUCT NAME

PerformaSil® 400
Silicone Waterproofing Membrane

PRODUCT CODE

PW Standard & Custom Colors

MANUFACTURER

ICD High Performance
Coatings + Chemistries
7350 S Union Ridge Parkway
Ridgefield, WA 98642
Phone: +1 (360) 546-2286
Fax: +1 (360) 546-2287
Email: icd@icdcoatings.com

TYPICAL PROPERTIES*

* These values provide general information and are not necessarily part of the product specification

<i>Property</i>	<i>Value</i>	<i>Unit of measure</i>	<i>Test Method</i>
Weight Solids	45	%	ASTM D2369
Volatile Organic Content	<25	g/L	EPA Method 24
Density	8.6	lb/Gal	ASTM D1475
As Cured			
Tensile strength	500	PSI	ASTM D412
Elongation	400	%	ASTM D412
Durometer	45	Shore A	ASTM D2240
Water Vapor Permeance	20	US Perm	ASTM E96
Water Vapor Transmission	5.8	g/(h·m ²)	ASTM E96
Air Permeance	<0.0002	cfm/ft ²	ASTM E2178
Wind Driven Rain	Pass – 98.1 MPH		RILEM No. 11.4
Accelerated Weathering	No blistering, chalking, gloss, or color changes	10,000 hours	ASTM G154
Low Temperature Flex	No change in tensile strength or elongation	Tested to -60°C (-76°F)	ASTM D412

DESCRIPTION

PerformaSil® 400 Silicone Waterproofing Membrane is a single component, pigmented, water-based silicone elastomer that dries to form a tough, durable film which provides long-lasting water protection withstanding hurricane-force, wind-driven rain; normal movement imposed by seasonal thermal contraction and expansion; ultraviolet (UV) radiation; and the elements. The membrane is impervious to liquid water but allows moisture vapor to escape from inside the substrate

COVERAGE

Apply two coats at:
160 sq. ft. per gallon (10 mils wet) per coat
For a total coverage of 80 sq. ft. per gallon (20 mils wet)
Rough and/or porous surfaces may require a heavier application to ensure complete coverage

DRYING TIME

Touch: 1 - 3 Hour @ 77°F (25°C), 50% RH
Recoat: 1 - 3 Hour Drying and recoat times are temperature, humidity, and film thickness dependent

APPLICATION

Mix thoroughly before application. Avoid aggressive agitation that may produce excessive air generation or foaming.

Apply at temperatures above 40°F (5°C). Do not thin.

Avoid over-brushing or rapid rolling, which causes air bubbles and will negatively impact the longevity and performance of the product.

Brush:

Use a nylon-polyester brush.

Roller:

Use a high-quality polyester roller cover with a 3/8" - 3/4" nap.

Spray - Airless:

Pressure - 1000 - 1500 PSI

Tip - 0.015 - 0.021 inch

After spraying, back-roll to ensure intimate contact with the substrate for maximum adhesion

Cleanup:

Clean spills, spatters, hands, and tools immediately after use with soap and clean water.

SURFACE PREPARATION

Prior to application all surfaces shall be structurally sound, clean, and dry, free from oils, dirt, debris, or minerals such as efflorescence, lime, and calcium.

To ensure the surface is as clean as possible, wash with a degreaser such as phosphate-free TSP, rinse thoroughly, then allow to dry completely. This is especially important when applying over painted or stained surfaces.

Existing peeled or checked paint should be scraped and sanded to a sound surface

Masonry, Concrete, Cement, Block:

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface.

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may generally be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Follow manufacturer's handling and safety precautions for any cleaners used.

PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Contact ICD Technical Services to learn about the 30-day single-component compatible material testing

Use material in a well-ventilated area. Protect all other areas not to be coated from overspray.

PermaSil® 400 Silicone Waterproofing Membrane should not be applied:

- When there is a threat of rain within the next 48 hours, or the relative humidity is in excess of 90% (such conditions would not permit complete drying)
- In temperatures below 5°C (40°F) or above 38°C (100°F)
- On asphaltic materials, or on tar-contaminated masonry
- On newly applied or green cementitious materials – industry guidelines recommend at least 28 days cure before painting or coating such substrates

STANDARD COLORS

Available upon request:

• Custom Colors

STORAGE

Product should be stored between 5°C and 35°C (41°F and 95°F). Container lids must be securely fastened at all times during storage. Protect material from freezing.

SHELF LIFE

PermaSil® 400 Silicone Waterproofing Membrane has a shelf life of 2 years from date of receipt at customer, provided the material is stored in sealed original containers at the recommended storage temperature.

The manner in which you use and the purpose to which you put and utilize ICD High Performance Coatings + Chemistries products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond ICD's control. Therefore, it is imperative that you test ICD's products, technical assistance and information to determine your own satisfaction whether ICD's products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been conducted by ICD. Unless ICD otherwise agrees in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release ICD from all liability, in tort, contract or otherwise, incurred in connection with the use of ICD's products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind ICD. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

ICD High Performance Coatings + Chemistries
7350 S Union Ridge Parkway
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www.icdcoatings.com
Phone: +1 (360) 546-2286
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Email: icd@icdcoatings.com