

# WATERPROOFING

## CCW-570 System

### Description

CCW-570 System is a multi-component, quick-curing, UV-stable, high performance, reinforced, cold liquid-applied Polymethyl Methacrylate (PMMA) waterproofing flashing that can achieve same day application. The System consists of:

- CCW-570 Resin
- CCW-570 Primer
- CCW-570 Catalyst
- CCW-570 Fleece

CCW-570 System is suitable for exposed flashing applications with CCW-500R Hot-Applied Waterproofing Membrane and CCW MiraSEAL™ Cold-Applied Waterproofing Membrane for use in roof decks, parking decks, plaza decks, balconies and terraces.

### Surface Preparation

All surfaces must be free from gross irregularities, loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the system. This requires careful preparation of existing horizontal and vertical substrates; cracks are filled, expansion joints are prepared, flashings are removed or modified, and termination points are determined. Substrates and penetrations are prepared to rigorous industry standards, and may require scarifying, sandblasting or grinding in some cases to achieve a suitable substrate.



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## CCW-570 Primer

After substrate preparation, apply CCW-570 Primer and temporary joint filler, and proper tie offs. CCW-570 Primer may be brushed or rolled onto any clean and properly prepared surface. Allow primer to cure completely prior to application of the CCW-570 Resin.

### Mixing – Primer

*Note: Prior to opening the containers of CCW-570 Primer, wear appropriate safety glasses and personal protective equipment.*

**Step 1:** Mix CCW-570 Primer (Component A) with a CCW approved agitator or stir stick, until the liquid is a uniform color, with no streaks present.

**Step 2:** Add 100 gram bag(s) of CCW-570 Catalyst (Component B) to CCW-570 Primer (Component A) and mix with the same agitator for 2 minutes or until the catalyst powder is completely mixed throughout the liquid resin. The amount of CCW-570 Catalyst must be adjusted according to temperature. Refer to the CCW-570 Catalyst Chart for CCW-570 Primer.

### CCW-570 Catalyst Chart for CCW-570 Primer

Material Temperature °F	CCW-570 Catalyst (100 g/bag)	Pot Life (min)	Completely Cured
35°F–50°F	2 bags	20	45
50°F–65°F	2 bags	20	30
65°F–85°F	1 bag	15	30
>85°F	½ bag	10	15

*Note: CCW-570 Primer is extremely fast curing. Excessive mixing time reduces the available working time for the Primer.*

### Application – Primer

After mixing, apply the primer with a roller or brush evenly onto the surface in a cross directional method, or utilizing a pour and spread method to fully cover the substrate. Porous substrates may require an adjustment to the primer application rate or multiple coats to achieve proper pore saturation.

*Note: Allow the CCW-570 Primer to completely dry without tack prior to application of the CCW-570 Resin. Do not apply CCW-570 Resin to tacky or wet primer.*

### Limitations – Primer

CCW-570 Primer may be applied when the ambient temperature is 35°F (2°C) and rising. The substrate temperature must be a minimum of 5 degrees above the dew point. CCW membrane must be applied to primer within 48 hours of primer application. Primer exposed for more than 48 hours must be re-primed.

### Coverage Rate – Primer

Approximate coverage rate is 125 ft<sup>2</sup> (11.6 m<sup>2</sup>) per 5 kg container.

*Note: Yields may vary depending upon smoothness and absorbency of substrate.*

## CCW-570 Resin

CCW-570 Resin must be applied to primer within 48 hours of primer application. Primer exposed for more than 48 hours must be re-primed. CCW-570 Resin may be brushed or rolled onto any clean and properly primed surface. Allow primer to cure completely prior to application of the CCW-570 Resin.

### Mixing – Resin

*Note: Prior to opening the containers of CCW-570 Resin, wear appropriate safety glasses and personal protective equipment.*

**Step 1:** Mix CCW-570 Resin (Component A) with a CCW approved agitator, until the liquid is a uniform color, with no light or dark streaks present.

**Step 2:** Add 300 gram bag(s) of CCW-570 Catalyst (Component B) to CCW-570 Resin (Component A) and mix with the same agitator for 2 minutes, or until the catalyst powder is completely mixed throughout the liquid resin. The amount of Catalyst must be adjusted according to temperature. Refer to the CCW-570 Catalyst Chart for CCW-570 Resin.

### CCW-570 Catalyst Chart for CCW-570 Resin

Material Temperature °F	CCW-570 Catalyst (300 g/bag)	Pot Life (min)	Completely Cured
23°F – 35°F	2 bags	45	90
35°F – 50°F	2 bags	35	70
50°F – 70°F	1½ bags	30	40
70°F – 85°F	1 bag	20	30
>85°F.	½ bag	20	30

*Note: CCW-570 Resin is extremely fast curing. Excessive mixing time reduces the available working time for the Resin.*

### Application – Resin

**Step 1:** After the resin is mixed, use a CCW approved roller nap or brush and apply  $\frac{2}{3}$  of the resin liberally and evenly onto the surface in even strokes. Cover one work area at a time, between 10–15 ft<sup>2</sup>.

**Step 2:** Roll the CCW-570 Fleece directly into the resin, making sure the SMOOTH SIDE IS FACING UP (natural unrolling procedure), avoiding folds and wrinkles. Use the roller or brush to work the resin into the fleece, saturating from the bottom up.

**Step 3:** Apply the remaining  $\frac{1}{3}$  of the resin to the top of fleece to complete the saturation. Rolling the final coat of resin onto the fleece should result in a glossy appearance. The fleece can only hold so much resin and all excess should be rolled forward to the unsaturated portion of the fleece. The correct amount of resin will completely saturate the fleece and no dry spots should be visible. Work wet membrane to avoid any blisters, openings, or lifting at corners, junctions, and transitions. Always ensure resin is fully saturated.

**Detailing:** Refer to standard details 500-20A, 500-20B, 500-20C, 500-20D, 500-20E, or 500-20F.

### Limitations – Resin

CCW-570 Resin membrane may be applied when the ambient temperature is between 23°F (-5°C) and 95°F (35°C). The substrate temperature must be a minimum of 5°F (-15°C) above the dew point.

*Note: Extra caution should be taken in below freezing temperatures. The viscosity increases with falling temperature.*

Ensure sufficient positive airflow over freshly applied CCW-570 Resin material during entire curing period to facilitate complete cure of the CCW-570 Resin.

### Coverage Rate – Resin

Approximate coverage rate is 60 ft<sup>2</sup> (5.6 m<sup>2</sup>) per 15 kg container.

*Note: Yields may vary depending upon smoothness and absorbency of substrate.*

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## CCW-570 Fleece

### Application – Fleece

Mix and apply CCW-570 Resin in strict accordance with CCW-570 Resin instructions. Apply mixed resin liberally to the prepared surface with a roller using a broad, even stroke. Roll out dry polyester fleece onto the liquid resin mix, making sure the SMOOTH SIDE IS FACING UP (natural unrolling procedure). The fleece will begin to rapidly saturate with the liquid resin mix. Allow fleece to saturate with resin from bottom up prior to pouring additional resin on top of surface. Applying pressure, roll the fleece with a medium nap roller to eliminate air bubbles, wrinkles, etc. Apply additional liquid resin mix on top of fleece until fully saturated and continue to work resin. The correct amount of resin will leave no whiteness in fleece and there will be a slightly fibrous surface texture. However, allow no ponding or excessive build-up of the resin. The coating should be smooth and uniform.

### Limitations – Fleece

Fleece must be kept clean and dry prior to and during application.

### Coverage Rate – Fleece

CCW-570 Fleece is available in rolls 164 ft. (50 m) long by 4 and 20 nominal widths. 110 ft<sup>2</sup> (10.2 m<sup>2</sup>) of fleece per 100 ft<sup>2</sup> (9.3 m<sup>2</sup>) of surface coverage.

*Note: Allow 10% for 2" (5 cm) over-laps and waste.*

### Sustainability Information

Rapidly Renewable Resource	0%
Recycled Content % (post / pre)	0/0
Manufacturing Locations	Canada, Germany & Italy

## CCW-570 System Standards



	Initial	Weathered
Solar Reflectance	0.86	Pending
Thermal Emittance	0.88	Pending
Rated Product ID Number	0951-0011	
Licensed Seller ID Number	0951	
Classification	Production Line	

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.



## Physical Properties

CCW-570 Primer	Value
Color	Transparent
Physical State	Cures to Solid
VOC Content	62 g/l
Usage Time*	15 minutes
Water Resistant After*	30 minutes
Cures After*	30 minutes
Apply Membrane/Coating After*	30 minutes

\*Values obtained at 73°F, 50% relative humidity, may vary depending upon air flow, humidity and temperature.

CCW-570 Resin	Test Method	Value
Color		Gray
Physical State		Cures to Solid
Thickness (120 Fleece)		90 mils
VOC Content		32 g/l
Peak Load @ 73°F, avg.	D5147	70 lbf/in
Elongation	D5147	Min 30%
Tearing Strength	D5147	80 lbf
Dimensional stability	D1204	0.05%
Water absorption	D570	0.05% (7 days)
Impact Resistance	D2240	Shore A:75 +/- 5
Crack spanning		2 mm/0.08 inch
Short-term temperature resistance		250°C/482°F
Usage time*		20 minutes
Rainproof after*		30 minutes
Solid to walk on after*		30 minutes
Apply coating after*		60 minutes
Apply overburden after*		60 minutes
Completely hardened*		6 hours

\*Values obtained at 73°F, 50% relative humidity, may vary depending upon air flow, humidity and temperature.

CCW-570 Fleece	Test Method	Value
Color		White
Physical State		Solid
Thickness		40 mils
Weight (g/m <sup>2</sup> )		120
Tensile strength @ break		>1,550 lbs.
Elongation		>65%
Tear resistance		>530 lbs.
Puncture strength		>1,065 lbs.

## Warnings and Hazards

Review Safety Data Sheets before handling; available online at [carlisleccw.com](http://carlisleccw.com).

## Storage

Always store CCW-570 Primer and CCW-570 Resin in a cool and dry location. Do not store in direct sunlight or in a temperature below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life is 18 months with proper storage. CCW-570 Catalyst must be stored separately from the primer and resin.

Always store CCW-570 Catalyst in a cool and dry location. Do not store in direct sunlight or in temperatures below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life is 36 months with proper storage. Store separately from the other CCW-570 components.

Always store CCW-570 Fleece in a cool and dry location. Store flat to avoid deforming rolls and creasing fabric. Shelf life indefinite with proper storage.

For best use, acclimate all CCW-570 components at temperatures between 65 – 70°F (18 – 21°C) for a minimum of 24 hours prior to application.

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## Disposal

Cured CCW-570 Primer may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components.

*Note: Uncured primer and catalyst are considered hazardous materials and must be handled as such, in accordance with local, state and federal regulations. Do not throw uncured resin or catalyst away.*

Cured CCW-570 Resin may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components.

*Note: Uncured resin and catalyst is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations. Do not throw uncured resin away.*

CCW-570 Catalyst by itself is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations.

CCW-570 Fleece may be disposed of in standard landfills.

## Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.