



Western COLLOID

FLUID APPLIED REINFORCED ROOFING

Warranty Inspection Points



WARRANTY INSPECTION GUIDELINES

A detailed list of installation procedures is included for each individual specification Western Colloid offers. **Those specifications should always be read thoroughly prior to installing any of our roof systems.** We are available for questions or assistance if needed. Each roof will come with its own set of challenges. If special circumstances exist, reach out to a Western Colloid representative for clarification as needed.

On the following pages is a list of key things to consider and key inspection points. These are not meant to be all-inclusive, nor are they going to apply to every roof. They are meant to help prevent work stoppages, maintain efficiency, and ensure all parties end up with the highest quality system upon completion, and be eligible for a manufacturer warranty.

It is the responsibility of the contractor to keep Western Colloid aware of progress during any projects that will desire a manufacturer's warranty upon completion.



CLEANING & PREPARATION

DRAINS/SCUPPERS/GUTTERS DRIP EDGES

These areas are generally the most critical areas on the roof. Roofs are designed to usher water to them, you want the water to leave the roof without obstruction.

These are also some of the most common problem areas that frequently get repaired. When you are initially installing a Western Colloid system, you have an excellent opportunity to clear buildup and reposition the profile of these areas.

Western Colloid's line of products has the unique ability to adhere to multiple substrates, in most cases, without the need for primers. Take the time to thoroughly clean and reshape these areas to put the roof in the best possible condition before starting our system. Adhesion throughout these areas is paramount, this needs to be the cleanest and smoothest area on the roof. If there is rust, it needs to be wire-brushed, and treated with a rust inhibitor, Western Colloid's products will not adhere to rust.

The membrane in these areas should be constructed out of either our #800 or #8000 elastic cement. Extend drain and scupper details out far enough onto the roof to allow for a 4" lap of the field/flashing plies. The tear out and cleaning is going to create a mess. This should be done ahead of the rest of the roof cleaning whenever possible.

Weather and possible pressure washing will be a factor in when to do these details. Make sure there is at least 48 hours of good weather before starting the process.

Western Colloid products should extend beyond any previous roof membranes so ours is the final termination. If we don't go beyond, we are at the mercy of the original roof, if it detaches, the new membrane will detach with it.

Remove clamping rings prior to installing the new drain detail. A 5-course detail is used for drains and scuppers, 3-course for drip edges and gutter edges. Reach out to a Western Colloid representative for more information on a roof-by-roof basis as needed.

Please refer to the ARCHITECTURAL DETAILS Page on our website.



CLEANING & PREPARATION

298 EMULSION (not including gravel)

Common Specs:

SM-2P-xE, SMEA-2P-6xE, SMEA-3P-6xE

Roofs that will receive 298 Emulsion and polyester as the first waterproof membrane should be thoroughly cleaned and made watertight prior to starting the emulsion application. Drains, Scuppers, sleepers, pipe stands, repairs, and other items that will make a mess should be dealt with before starting the emulsion application. Many of these areas will require scraping and deeper cleaning, this should be done ahead of any sweeping and blowing whenever possible. Pressure washing the roof is an option, but not always required when emulsion will be the first layer of waterproofing.



720 ELASTAHYDE ARC

Common Specs:

**SMAA 1P-6xE, SMAA 1P-7xE, SMAA 2P-8xE,
WCP-MTL1-3E, CTG 3xE**

Roofs that will receive 720 ElastaHyde ARC with or without embedded polyester as the first waterproof membrane should be pressure washed, while also using **Western Colloid 9000 Wash & Prime** in the cleaning process. When 720 Acrylic is going to be the first product creating adhesion to the existing roof membrane, cleanliness of the roof is extremely important to the overall success of the system. In some cases, pressure washing may not be the best choice, in these cases contact a Western Colloid representative for options. **FOR SOME SUBSTRATES A PRIMER MAY BE REQUIRED** prior to the acrylic application, info will be available in the individual Specification, reach out to a Western Colloid representative with any questions.



Inspection following the cleaning and preparation of the roof prior to the acrylic application is at the discretion of Western Colloid. The contractor is responsible for contacting Western Colloid to schedule this inspection.



RECOVER GRAVEL SURFACE

**Common Specs:
GR-2P-24-XE, GRE-3P-24-6xE**

Roofs that are existing tar and gravel require special treatment. These roofs are difficult to assess ahead of the cleaning process, so they need to be assessed while in process. These roofs are generally exceptionally dirty and require the most effort to get clean enough for our systems to achieve adhesion.

First the loose gravel needs to be removed to access the sediment beneath, then that sediment needs to be completely removed. A power broom is usually required to get the compacted sediment loosened up enough to remove.

There are several ways to clean a gravel roof, they vary in terms of cost and effort. Vacuuming is the preferred method and requires the least labor overall but comes with a fee. A Hydro-Vac is an excellent way to clean the roof but is generally a higher price per s/f than a dry vac, and not always available in all areas.

The most popular method is a dry vac, followed by a power broom, followed by a second pass with the dry vac, this will generally get the roof to a condition ready to receive the flood coat. This method is not 100% effective but works a high percentage of the time. Occasionally additional blowing and brooming is still needed. Power broom plus push brooms and blowers can get the roof to a state ready for flood coat, but require a significant amount of labor, and usually several passes over the same area.

AN INSPECTION AFTER THE ROOF HAS BEEN CLEANED AND PREPARED FOR FLOOD COAT IS REQUIRED TO RECEIVE ANY TYPE OF WARRANTY FROM WESTERN COLLOID.



RECOVER GRAVEL SURFACE

**Common Specs:
GR-2P-24-XE, GRE-3P-24-6xE**

Continued...

Once the roof has been cleaned and passed inspection a flood coat may be applied. Unfortunately, the quantity of emulsion needed for the flood coat cannot be determined ahead of time. Western Colloid advises to overestimate the amount of emulsion needed to ensure the contractor is covered financially. There isn't a reasonable amount of flood coat that is too much. The weight of gravel and dirt that has been removed during the cleaning is going to exceed the weight of emulsion that will be added during the flood process.

THE MORE FLOOD COAT THAT IS APPLIED THE BETTER.

The smoother you can get the roof membrane with the asphalt emulsion flood coat/coats, the more production will increase limiting the need for cuts and repairs using #800 Elastic Cement, minimizing material and labor costs. The investment in proper flood coats can result in overall increased profits for the completed project.

AN INSPECTION AFTER THE FLOOD COAT HAS BEEN APPLIED, PRIOR TO ANY POLYESTER PLIES BEING INSTALLED, IS REQUIRED TO RECEIVE ANY TYPE OF WARRANTY FROM WESTERN COLLOID.



OILS AND SURFACTANT LEACHING (TOBACCO STAINS)

Occasionally there will be oils that are released during the curing process of our #298 Emulsion, these oils may not need to be removed when an additional application of #298 Emulsion follows. However, when #800 Elastic Cement or #720 ARC acrylic products are the next step in the system application these oils will need to be removed from the roof surface.

Our acrylic products will not adhere to these oils. Most frequently this takes place when there is moisture introduced during the curing process. Humidity, rain, morning dew can all lead to these oils presenting themselves. They can be wiped up with rags or a mop. If these areas are extensive, washing the roof might be the most effective means of cleaning them.

Acrylic applications will sometimes have a very similar looking substance that appears, often under similar circumstances where moisture has been present. It is a different substance than the emulsion, but the cleaning is the same. These areas where there is dark yellow/brown colored substance on the roof (often in ponding areas) need to be cleaned prior to continuing with any acrylic applications.



SYSTEM INSTALLATION

When embedding polyester fabric into any of our products (including #298, #720, #800 and #8000), it is important to remember we are building a reinforced membrane AND adhering it to the roof in a single step, this requires adequate product thickness throughout the install. #298 Emulsion and #720 ARC are water based. What looked good wet, may look different the next day when it's dry. It is better to error on the heavy side when dealing with irregular surfaces.

Periodic Inspections should be performed throughout the installation process.

The size of the roof and the speed at which the installation is happening will determine how frequent inspections need to take place. It is expected that the installing contractors will give progress updates throughout the project. Prior to a transition from one stage to the next is an excellent time to schedule an inspection, punch lists that can be performed while the roof is still in process saves labor and allows additional flexibility.

There is generally a common sequence of installation that takes place regardless of which Western Colloid Spec is being installed.

- Cleaning and Roof Preparation.
- Layers of waterproof membrane using #298 Emulsion.
- And/Or #720 ElastaHyde.
- #800 Elastic Cement at penetrations and terminations.
- The Acrylic topcoat.

All system components including the reinforced acrylic in ponding and waterways must be completed prior to the final topcoat being applied. Skipped steps will not be allowed.

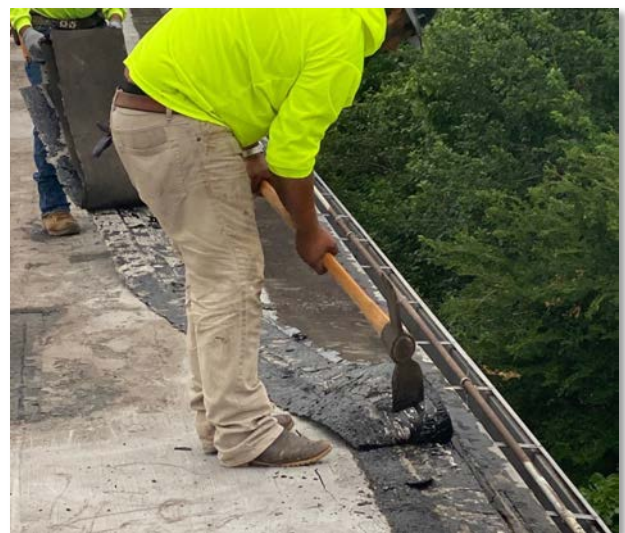
CONFIRMATION FROM WESTERN COLLOID THAT ALL SYSTEM APPLICATIONS ARE WITHIN SPECIFICATIONS PRIOR TO THE TOPCOAT BEING APPLIED IS REQUIRED TO RECEIVE ANY TYPE OF WARRANTY FROM WESTERN COLLOID.



SYSTEM INSTALLATION

Some of the common imperfections that require repairs we find during inspections of Western Colloid systems include:

- **Dry laps on the polyester fabric.** (Be sure to extend emulsion and acrylic wide enough so the entire 40" of the sheet has product under it.)
- **Bridging and tenting.** The cant area of walls and curbs is a common place where this occurs, flashings need to be fully adhered and broomed in, wrinkle free. Irregular surfaces in the field can cause tenting around them, try to catch these areas in the prep stage and remove them as much as possible.
- **Wrinkles in the fabric.** These areas are avoidable, take the time to do quality control as the system is being applied. Wrinkles can almost always be removed while the sheet is still wet, if it dries with a wrinkle in it the repairs are much more labor intensive and uses #800 Elastic Cement which is a more expensive product than the #298 or #720 is.
- **Does our system extend beyond any other waterproofing that was previously installed?**
We do not want to depend on old systems, attachment directly to the building is preferred whenever possible. Occasionally we need to cut back old systems, this commonly happens on parapet walls, at gravel stops, scuppers. If there is term bar, we want to ply up to it and then 3-course over it to seal beyond.
- **AIR UNDER OUR SYSTEM** is one of the most detrimental conditions for us, as the roof is being applied every inch should be fully adhered to whatever is below it with no voids.



COMMUNICATION IS KEY

There is flexibility within our systems to alter the sequence of installation to some degree. Sometimes weather can play a factor, or other circumstances related to a particular building may play a factor in what work can be performed on a given day.

Western Colloid wants to be of assistance. Our representatives understand our products and what it takes to install them. Our goal is to help you provide a waterproof membrane that will last for decades while assisting in the efficiency of the roof application.

We offer detailed specifications but also understand that each roof is unique and often comes with challenging situations.

Communicate with us and we will do our best to help make projects go as smoothly as possible while not hindering progress.

Good communication from our contractors helps us schedule inspections that don't get in the way of production.

Rely on Western Colloid for clarity as needed, we are here to help.



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