



NEUNDORFER
PARTICULATE KNOWLEDGE

NEUCoat™

Pre-Coat Protective Conditioning/ Absorption Treatment for Fabric Filter Bags

INJECTION PROCEDURE

NEUCoat is a protective filter bag pre-coat conditioning/ absorption treatment with an ultra-high surface area that creates an essential protective dust layer for extending bag life with new and replacement bags. The addition of Trona as an absorption agent to NEUCoat also diminishes the potential damage caused by acid attack on filter bag media during the critical startup dew point period.

The injection of NEUCoat can also provide a controlled filtering dust layer that can maintain differential pressure while restoring collection efficiency to aging blinded filter bags suffering from excessive bleedthrough emissions.

The NEUCoat pre-coat conditioning treatment improves filter bag performance by:

- Protecting new or replacement bags from impingement blinding during the critical startup period
- Lowering differential pressure by applying a high-efficiency porous filtering dust layer
- Absorbing damaging acids, hydrocarbons, moisture and some metals
- Restoring filtering efficiency to aging bags when bleedthrough emissions occur
- Reducing emissions during compliance verification testing

Injection Instructions:

1. Determine the amount of NEUCoat pre-coat conditioning powder needed by calculating the total filter bag cloth area to be treated. One pound of NEUCoat is required for every 20 square feet of filter cloth—one 50-pound bag of NEUCoat effectively treats 1,000 square feet of bag cloth area. If the total square footage of filter cloth is unknown, use this formula:

$$\text{Total Cloth Area (ft}^2\text{)} = [(\text{Bag Diameter (inches)} \times 3.14 \times \text{Bag Length (inches)}) / 144] \times \text{Total \# Bags}$$

2. Identifying suitable injection ports or access doors:
 - A 2- to 3-inch diameter nipple located in the inlet duct or hopper of the compartment/collector is ideal for injecting NEUCoat pre-coat. (If a multiple compartment collector is being treated, NEUCoat pre-coat can be applied into the main inlet duct for treatment of all compartments at once).
 - Hopper port should be at or near the same elevation as the inlet duct to ensure full material utilization is achieved. Note: NEUCoat pre-coat should always be injected into the gas stream where sufficient conveying velocity can keep NEUCoat pre-coat suspended.
 - Insure that the access door/hatch can be safely held open during injection.
 - Note: If the baghouse operates under positive pressure, a material-conveying blower or inductor is needed for pressure-injecting NEUCoat pre-coat.
3. Ensure the compartment/bag cleaning system is deactivated/not operating during the initial treatment period.
4. Always use the proper personal safety equipment (PPE) when handling NEUCoat material (i.e., dust mask, safety goggles, coveralls, etc.).
5. Start the system fan if injecting into a single compartment or open dampers if using with a multiple-compartment collector and the system fan is already running.
6. The use of a vacuum hose connected to the port acts to convey or pull the NEUCoat treatment from the container into the baghouse gas stream.
7. If an access door is chosen, allow the predetermined quantity of NEUCoat pre-coat to be drawn into the baghouse by holding the open container

close to the door. The negative suction will convey the material into the air stream and deposit on the bags.

8. **IMPORTANT!** Never shut down the system fan or close dampers after NEUCoat injection, as the treatment will drop off the filter bags, greatly reducing its effectiveness.