



GEOVENT

INSTRUCTION MANUAL



PREKOTE

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1.0 Installation

PreKote® or a conditioning agent should be introduced to a dust collection system upstream of both the fan and the baghouse. Welding a pipe coupling into the duct work of the baghouse is the best way gain entry into the gas stream. In a negative pressure system (suction) hopper access ports may also be used.

The following procedure is recommended for a successful conditioning operation:

1. The balance position of the main inlet or outlet damper (blast gate) should be noted.

This is important because the system should be returned to this flow balance when the conditioning process is complete. Remove the collector controls from automatic operating positions (Including the cleaning mechanism).

2. Place the damper in a fully closed position prior to starting the fan.

3. After starting the fan, open the damper or blast gate to approximately one-half (50%) of the design air flow rate.

4. Allow the PreKote® or conditioning agent to enter the system. The material should not be "dumped" into a system. The rate of feed should simulate process dust and should not exceed the following for the rated air flow of the system.

Up to 42.400 m³/h @ 4,5 kg/minute max 42.400 to 84.800 m³/h @ 11,2 kg/minute max 84.800 to 127.500 m³/h @ 20 kg/minute max 127.500 to 169.600 m³/h @ 27 kg/minute max 169.600 to 340.000 m³/h @ 45 kg/minute max Over 340.000 m³/h, the feed restriction is not a major factor but could be given at 90 kg./min. and is not likely to be exceeded. Maintain this flow rate until the baghouse stabilises in a range of 250 to 750 Pa. of differential pressure across the new filter bags.

5. Gradually open the damper or blast gate to the original position that gives designed air flow.

6. Check the air flow balance at the hoods and branches to insure proper air volumes and balance in the system.

7. Return the collector controls to their normal operating positions. If the differential pressure across the baghouse exceeds 1000 Pa. for an intermittent operating baghouse design or 1500 on a continuous operating design during this conditioning process the cleaning mechanism of the baghouse should be activated.

Pre-coat recommend

startup condition could be:

10-15 gr/ m² area of the cartridges.

42 m² = 420 gr to 500 gr.

153 m² = 1.53 kg to 2.3 kg

as a startup you can use the following recommended condition:

the balance position of the main inlet or outlet damper should be noted.

This is important because system should be returned to this flow balance when the condition process is complete. Remove the collector controls from Automatic operation position (incl the cleaning mechanism)

Place the damper in a fully closed position prior to start the fan.

After starting the fan, open the damper or blast gate to approx. one-half (50%) of the design air flow rate

Allow the pre-coat to enter the system. The material should not be dumped into the system:

500 to 1000 gr/min depending on collector size.

during operation you still need to add pre-coat continuously, how much??

depending on cleaning cycle and the ad of pre-coat should only be 10-12% of the startup volume.

The continuously adding you need to play with yourself, as this is depending on many factors.

Use

When using Pre-Cote filter aid in place of other products, different operating procedures may be required. Pre-Cote should be used on a volumetric basis, (i.e.: bag for bag), because Pre-Cote is considerably lighter than most other filter aid products. Actual operating procedures, grades and quantities can best be determined by testing.

GRADE	WEIGHT OF BAGS (LBS.)	CAKE PERMEABI- LITY (IN DARCIES)	RELATIVE FLOW (ml)	AVERAGE WET CAKE (LBS/CU.FT.)
Sil-Kleer #27-M	40	.2	300	12.5
Sil-Kleer #25-M	32	.5	550	10.0
Sil-Kleer #23-S	34	1.0	750	9.0
Sil-Kleer #21-S	32	1.5	950	8.5
Sil-Kleer #19-S	29	2.0	1100	8.0
Sil-Kleer #17-S	25	3.0	1300	7.0
Sil-Kleer #15-S	23	5.0	1700	6.0

(Tested with tap water under constant pressure.)

TYPICAL CHEMICAL ANALYSIS

Silicon Dioxide	73.8 %
Aluminum Oxide	13.9 %
Potassium Oxide	4.3 %
Sodium Oxide	4.7 %
Iron Oxide	0.9 %
Calcium Oxide	0.9 %
Magnesium Oxide	0.3 %
Traces	0.2 %
Percent Moisture at 105C for 4 hrs.. . . .	<1.0
	100.0

TRACE ELEMENTS

Arsenic.	<0.001 %*
Barium	<0.1 %
Boron	<0.01 %
Chlorine	<0.0005 %
Chromium	<0.0075 %
Copper	<0.0015 %
Gallium	<0.05 %
Lead.	<0.001* %
Manganese	<0.3 %
Molybdenum	<0.002 %
Nickel.	<0.002 %
Sulfur	<0.2 %
Titanium.	<0.1 %
Zirconium.	<0.003 %

* By Food Chemical Codex Method

Technical data shown is considered accurate and reliable. However, there is no guarantee of results, and no formulation gives permission to violate any patent.

5.0 Liability

Warranty

Geovent A/S grants a warranty for products, which are defective, when it can be proved that the defects are due to poor manufacture or materials on the part of Geovent. The warranty comprises remedial action (reparation or exchange) until one year after date of shipment.

No claims can be made against Geovent A/S in relation to loss of earnings or consequential loss as a result of defects on products from Geovent.

Wear on parts such as filter cartridges is not included in the warranty.

User liability

In order for Geovent to be capable of granting the declared warranty, the user/fitter must follow this Instruction Manual in all respects.

Under no circumstances may the products be changed in any way, without prior written agreement with Geovent A/S.

6.0 Declaration of conformity

Hereby declares that:

The product: PreKote
Models: PreKote

Authorized to collect the technical file:
Ole Madsen

Date: 30/11-18

Position: Managing Director
Name: Thomas Molsen

Signature:





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