

# MOSS

## STEAM WORKS

A HOMER GROUP COMPANY

— Since 1949 —

# Revolutionary deep cleaning of moss from your roof

## JUST PURE AND GENTLE STEAM.

NO POWER OR JET WASHING INVOLVED

ECO FRIENDLY , NO CHEMICAL BIOCIDES.

## EXPERTS IN ROOFING

We have been a roofing company since 1949, renewing roofs and carrying out all aspects roofing repairs.

We have also been removing moss from roofs by hand with the use of a hand trowel up until recently, this approach has been a time consuming, and labour intensive method, we also felt that when the roof was finished it looks patchy, and we never felt that the customer really got the best value for money!

With our new revolutionary steam deep cleaning soft wash system, not only is all the moss removed, but the roof looks like almost new again, with no patches.

## Call today for your free estimate

# 0208 - 644 - 1111



INFO@MOSS-STEAM-WORKS.CO.UK



WWW.MOSS-STEAM-WORKS.CO.UK

# MOSS

## STEAM WORKS

A HOMER GROUP COMPANY

Since 1949

## INTRODUCTION TO OUR STEAM WORKS PROCESS



Our revolutionary deep cleaning soft wash system, involves only the use of just high steam, in excess of 150c degrees, with low pressure Nominal water applied, which gently removes moss, lichens etc



We use an Eco friendly non aggressive approach, no chemical biocide used during our steam works process, just pure and gentle steam.



The steam/superheated water will remove moss, algae, fungi and other biological matter and will also kill off spores.



We have invested in the very best possible equipment, to do the job thoroughly and efficiently, the right equipment is so essential for our efficient roof steam works process.



Expert supervision, professional staff that are trained to the highest level.



We have all the experience and expertise to expedite the works safely.



Roof steam works not only enhances the look of the property, but also ensures the roof returns to a healthy condition.



A thorough steam clean and sanitation of the roof, will add many years to through fungus infection etc.



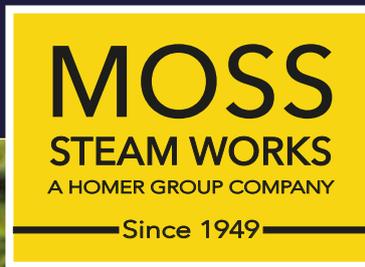
The value of your property can increase if your roof is in a sound and clean condition, apart from looking the part.



Moss on Roofs can be a Health Hazard...While not all mould (fungi) and algae pose a health danger, some are harmful, especially for older people, younger children, babies and people who suffer from asthma and respiratory problems.

## JUST PURE AND GENTLE STEAM





## Heavy Moss Build Up On A Tiled Roof

### NO POWER WASHING OR JET WASHING IN-

The tremendous damage “power jet washing” does to a roof! It literally rips the sand off of the felt exposing the petroleum based subsurface to the sunlight, which will break down the petroleum base in a few years. It will also remove the protective finish to tiles and slates!

**‘We would never use this method on a roof,  
with high water jets damaging the roof!’**

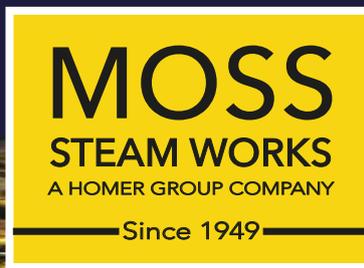
### DOES MOSS ON MY ROOF MEAN I NEED A NEW ROOF

Silent yet invasive, the presence of moss or algae stains on your roof does not necessarily equate with needing a new roof! Often a roof just needs a steam cleaning to restore your roof to a healthy condition!

### PLEASE DON'T BE MISLED

**IF SOMEONE TELLS YOU,  
“YOU NEED A NEW ROOF, BECAUSE OF MOSS INFESTATION**





## MOSS IS NOT ON ALL THE THE ELEVATIONS OF MY HOUSE

Just because you can't see moss on certain areas of your roof, doesn't mean it's not already there and beginning to develop. In its early stages, roof moss and algae are completely invisible to the naked eye.

## WHY IS IT IMPORTANT, TO KEEP YOUR ROOF MOSS-FREE?

If your roof is not kept clean and well maintained, roof moss and algae build up and can reduce years off the life of your roof, It is really important to remember roof algae is a living organism, If your roof has moss or algae, then you will have a higher fuel bills, you will also need to have more remedial roof repairs.

## CAN MOSS CAUSE HEALTH PROBLEMS?

While not all mould (fungi) and algae pose a health danger, some are harmful, especially for elderly people, babies and younger children, and people who suffer from asthma and respiratory problems.

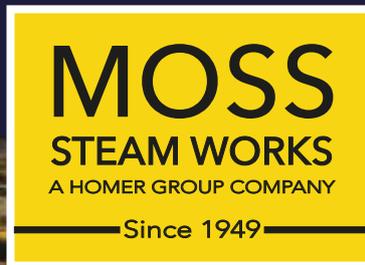
The spores on your roof can get inside your home because they end up on the driveway and paths, and are easily tracked inside the house.

Different mould species can have varying health effects, but it is important to remember that excessive mould growth needs to be taken care of, regardless of the species.

Any excessive mould growth can lead to increased allergies and toxicity.

Blue, green or black stains on a bitumen felt roof, are mostly caused by algae, these algae staining begins with small spots, over time these spots can develop into streaks, Algae stains are often mistaken for mould or mildew.





## THE STEAM WORKS PROCESS STEP BY STEP

---

Our revolutionary steam works system, involves a soft deep cleaning approach, using only high temperature steam in excess of (150 degrees) employing minimal water pressure, just enough to achieve pure steam, which gently removes and kill the micro roots, moss, lichen, algae, dirt, grime and pollutants spores from the pores of tiles/slates, render or whatever we are cleaning, the system will also break down bugs, nests and spider webs, whilst also killing mould, mildew and bacteria leaving surfaces completely sanitised, without causing harm or shock to the substrate.

When your rainwater downpipes are directly connected into the main drains, or soakaways, we disconnect the swan necks from the guttering and downpipes, and install (temporary downpipes) to prevent any debris entering the main drains or soakaways, which would lead onto major problems of blocked drains.

The waste and water product from the guttering is diverted through a temporary fitted downpipe, all waste collected is bagged and removed from your property, the water from the temporary downpipe is totally safe to run back into the earth, as we use no chemicals during the entire process.

Once this stage of the works have been completed, your rainwater guttering system is cleaned and left free of all debris, the original swan necks are reconnected to the guttering and downpipes as they were found.

Finally we carry out a leak test to the rainwater system complete, should any faults be found to the guttering or blockages to the downpipes, this would be drawn to your attention, so you can budget for these works at a later date.



# MOSS

## STEAM WORKS

A HOMER GROUP COMPANY

Since 1949



## ACCESS PLANT AND EQUIPMENT

All of the access equipment below is at our disposal, from one of our sister companies, which allows us to be able to tackle any roof requiring the right access in the safest and most economical way possible.

Our surveyor will decide on the most suitable access plant required for your property, which may be one, or several of the access choices below.

**QUICK ACCESS TOWERS**

**MOBILE TOWERS**

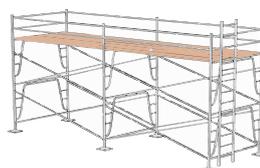
**EASI-DEC SYSTEM**

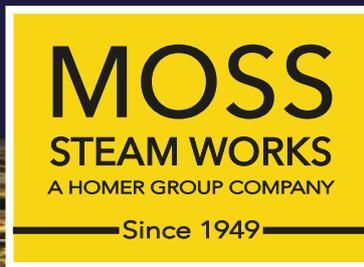


**CHERRY PICKER (MEWP)**

**SCAFFOLDING**

**ROOF LADDERS**





## **INEXPERIENCED PEOPLE CLIMBING ON ROOFS**

By its pure nature Roof Cleaning should NEVER be undertaken at any time by the inexperienced amateur, not only due to the danger of falling from heights, but for the reasons of damaging the roof.

Without the correct training, or experience on how to access a roof correctly, or the knowledge of where you can tread on a roof without causing damage, and Bearing in mind at all times, the health and safety competence assessment.

**A HEALTH AND SAFETY POLICY**

**AN ENVIRONMENTAL POLICY**

**RISK ASSESSMENTS**

**COSHH ASSESSMENTS**

**HEALTH AND SAFETY TRAINING FOR EMPLOYEES INCLUDING MANAGERS**

**ACCIDENT REPORTING & INVESTIGATION**

**PLANT, EQUIPMENT AND TOOL MAINTENANCE/CALIBRATION/PAT**

**INFORM & CONSULT WITH STAFF ABOUT HEALTH AND SAFETY MATTERS**

**ACCESS TO HEALTH AND SAFETY INFORMATION**

**INSURANCE POLICY FOR PUBLIC 5 MILLION & EMPLOYERS 10 MILLION**

**EMPLOYEE DBS CHECKED**

**NPPV1 (POLICE CHECKED)**

**ASBESTOS AWARENESS TRAINING**

**CSCS SKILLS CARD**

**PROFESSIONAL BODY MEMBERSHIPS**



# MOSS

## STEAM WORKS

A HOMER GROUP COMPANY

Since 1949

## Moss On Large Concrete Roof Tiles

### WHAT CAUSES MOSS & FUNGUS INFESTATION?

Where and when the air that we breathe is highly polluted, moss and lichen struggle to survive, but where the air is clean they will survive.

Moss & Algae will grow and thrive on your roof, as the environment in the UK being moist and humid this combined with indirect sunlight to shaded areas from trees etc, allows the moss to thrive.

The absence of sunlight, dictates the amount of moss or Algae growth, together with cool weather actually rampantly encourages speed growth of moss on roofs.

Moss is a microorganism that does not have actual roots that anchor them to the substrate, when left to grow and duplicate these roots need to be strong to keep the moss where it is most happy living.

Moss will find an ideal place to live, where it can spread and grow in comfort! As it is reliant on damp conditions for its reproduction, as the male cells, move via a film of water to reach the female cells for fertilisation, sometimes this is within one plant, but also allows them to reach another plants, depending on the species.

If your property is situated more into the suburbs rather than in a city, trees and surrounding plant life can cause heavier microorganisms production, which spread onto your roof quicker than living in a city.





## Moss On A Flat Roof

10 December 2019  
51°20'21"N 0°12'37"E WGS84 (± 14m 0" N)

Lichen and moss are very different, but may occur next to each other on the same roof, Lichen is a composite organism, where fungus is either an algae or a bacteria, they soon form a very close friendship and live off each other.

Lichen can survive the very harshest of climatic conditions, and is rarely killed by long drought conditions, the one thing that will kill lichen is atmospheric air pollution.

There are approximately 15,000 species of lichen, but the one that is most common on roofs is Ascomycetes Foliose, this form of lichen starts as a small yellow or orange dot, and gradually grows out from the center getting bigger and bigger leaving the center to go white grey.

Moss on the other hand is a very simple plant form that likes to move water around inside its own form, it has to absorb the moisture directly and that is why it likes damp shady places.

Of the 12,000 species of moss the most common moss found on roofs is bryophyte andeaeaceae, which grows in green humps, and has a little lantern shaped spore capsules in place of flowers.



# MOSS

## STEAM WORKS

A HOMER GROUP COMPANY

Since 1949

## PROBLEMS OF MOSS, FUNGUS, ALGAE & MOULD TO BUILDINGS

Moss is amazingly resilient, normally found developing to a north or west elevation of roofs, that receive higher levels of rainfall, and have high humidity.

Moss flourishes in shaded areas that receive limited amount of indirect sunlight, together with periodic exposure to water or damp conditions it becomes an ideal breeding ground for a moss colony.

When moss forms on a roof, moisture becomes trapped, preventing the natural evaporating process taking place.

Persistent moisture definitely does lots of damage to the roof coverings over time, and contributes to another more serious problem mould! Which is a far more of a hazardous problem than moss, it grows persistently on moist surfaces, if a mould colony grows on your roof, the fungus can cause permanent damage.

You can only ensure a mould free roof, by keeping the roof free from excess moisture, and you can only free your roof of excess moisture, by eliminating moisture trapping organisms like moss.

Moss acts like a sponge, it retains and absorbs water with the ability to absorb liquids up to 20 times its own weight! And it fosters the growth of other roof inhabitants such as mould or Fungi, leading onto dampness.

If left untreated moss will shorten the lifespan quicker, of roofing felt, asphalt, tiles and slates etc, once the coverings become damaged, and the timber substrate becomes exposed, its only a matter of time before the timber decking and joists begin to rot leading to permanent structural damage.

Moss also likes to grow on cement and often will agitate the mortar bond joints between the hip and ridge tiles to the roof, disturbing the seating, lifting the mortar bed of the tiles/slates, and in turn the mortar itself will become unbounded.

Moss settles between, and under roof tiles/slates, when the outside temperature drops it will then freeze, causing expansion and contraction to the roof tiles/slates, leading onto the tiles becoming brittle and weakened, which leads onto fractures/winter cracks, followed by potentially causing leaks into the loft.



Generally you will find lichen growing mainly to exposed areas, while the moss will grow in corners of the interlocks of the tiles/slates as well as the head laps, where there is shelter, and more water can be retained.

If moss is left untreated, the longevity of a roof will be shortened, as moss causes damage such as, pitting to many surfaces such as, roof tiles/slates, render and concrete surfaces, Algae and other organic growths such as mould, moss and lichen are bad for building surfaces, such as render, as they are a major contributor to the premature decomposition process of building materials.

The presence of biomass, affects the degree of sunlight a roof is able to absorb, and in turn the amount of heat a building manages to maintain.  
the microscopic root system of moss is strong, although to the naked eye you cannot see the roots they are there!

You can certainly see the damage caused, after the moss has been removed when you inspect the material.

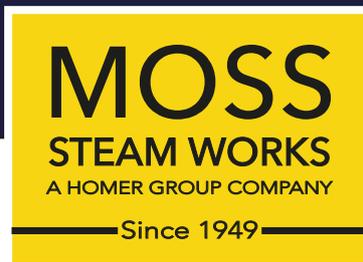
Mould, algae, moss are all living microorganisms that are in plants, soil and trees that grow everywhere including on buildings.

When moss is spotted on roofs, it is often a good indication that there is already a moss deposit present within the rainwater system, rain, wind and snow frequently dislodges pieces of moss allowing the moss to get trapped within the rainwater system, the wet moss will swell in size, reducing the flow of the guttering and in turn forming blockages in the downpipes and into the main drains or soakaways.

Once the flow is restricted, and rainwater system cannot drain away quick enough, this will lead to the guttering and downpipes overflowing, leading onto damp and mould entering the eaves and soffits, forming rot to the timber structure and leading to the smell of damp within the loft space.

The algae spores are carried to our roofs by the wind and birds, often you will see pieces of moss on your patio, or a conservatory roof etc. A lot of the time this is caused by birds who are routing for insects, bugs or for nesting materials, and source them from the rainwater guttering where they are trapped.

In many instances the start of moss or lichen growing on roofs is due to bird droppings, Look under any TV aerials that are fixed to chimneys and the volume of lichen and moss



## DOMESTIC PROPERTY

- PAINT REMOVAL • GRAFFITI • BIRD OR VERMIN FOULING
  - CHEWING GUM • BITUMEN • OIL • GREASE ETC
- BRICK CLEANING • RENDER • STONE WORK CLEANING
  - ROUGHCAST • CLADDING • SOLAR PANELS
- UPVC GUTTERING FASCIA SOFFITS AND BARGE BOARDS
  - CONSERVATORIES ROOFS AND FRAMEWORK
- WINDOW FRAMES CLEANED • ROOF CLEANING • MOSS REMOVAL
  - ROOF TILES • ROOF SLATES • FELT • ASHFELT CLEANING
  - ASBESTOS ROOF CLEANING • ALGAE • MOSS • FUNGI

## COMMERCIAL INDUSTRIAL PROPERTY

- WINDOW FRAMES CLEANED (UPVC OR ALUMINIUM)
- INDUSTRIAL ROOF CLEANING • ASBESTOS ROOF CLEANING
  - COMMERCIAL ROOF CLEANING • ALGAE • MOSS • FUNGI

STANDARD JET PRESSURE WASHING SERVICES OFFERED

## DOMESTIC COMMERCIAL INDUSTRIAL PROPERTY

BLOCK PAVING • CAR PARKS • CONCRETE • SLABS



834 London Road  
Cheam, Sutton  
Greater London  
SM3 9BJ

Direct Dial: 0208-641-1234

Trade Counter: 0208-408-1234





