

# SERUM SR

## FIRE AND SMOKE RESTORATION

### A POWERFUL & EFFICIENT SOLUTION FOR SMOKE AND SOOT REMOVAL

Serum SR (Smoke Stain/Soot Remover) is a superior, caustic degreaser, designed to effectively combat the challenging residues left behind by fire incidents by dissolving the carbon deposits left behind.

Degreasers by design are formulated to react with petroleum and or fire related residues. Sticky, stubborn residues left behind after fire incidents must be removed before final cleaning and deodorisation can take place. Serum SR easily tackles these stubborn oily soils, and smoke and soot residue.

When fires engulf synthetic materials like paint, plastics, and rubber, they create complex deposits containing oils and resins that can be challenging to remove from porous surfaces. Serum SR boasts a unique chemical formulation that penetrates a range of resilient, porous materials, breaking down and removing these stubborn soot and smoke accumulations and deodorising at the same time.

The chemistry behind Serum SR harnesses the potency required for thorough cleansing, leveraging a precise blend of caustic elements and water-soluble solvents from the alcohol family. This potent combination works in synergy to dissolve, sequester, and effectively remove the stubborn, heat-fused smoke residues often present in fire-damaged structures.

Using Serum SR followed by the application of Serum 1000 significantly aids in the neutralisation of smoke residue and associated odours. Material restorability and the efficient restoration of fire-affected environments to their original state is maximised, eliminating any traces of smoke-related concerns.

**Serum SR has a multitude of other uses including degreasing heavy equipment, range hoods, engines, or any place where heavy, greasy oils accumulate.**



### MATERIAL APPLICATIONS

Serum SR is safe and suitable for a wide range of resilient surfaces, including:

- Structural Timber
- Tiles
- Concrete
- Masonry
- Terracotta
- Unsealed Linoleum
- Painted Concrete Floors
- Powder-Coated Metals
- Structural Steel.



*Always pretest to assess substrate chemical sensitivity and suitability. Milder dilutions should be used when sensitive substrates are encountered.*

# SERUM SR

## DIRECTIONS FOR USE

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Prior to application, conduct a preliminary compatibility test in an inconspicuous area to assess the substrate's reaction to the chemicals. Ensure strict adherence to all safety guidelines and thoroughly review the applicable Safety Data Sheets (SDS's) before commencing work.

- 1) Dry Standard: Ensure building materials to be restored are returned to dry standard.
- 2) Soot Loads are then removed utilising Serum SR:

- Light, medium, and heavy smoke or soot loads are pre-cleaned with Serum SR Smoke Remover. Depending on the thickness of the load, the dilution can be adjusted from 1 part SR to 10 parts clean water for light loads up to full strength (undiluted) for heavy loads.
- Apply the solution generously to all affected areas with the Mini Eliminator Soft Spray System in an even and methodical spray pattern.

*ALWAYS SPRAY FROM THE BOTTOM UP TO AVOID STREAKING AS THE PRODUCT BEGINS TO IMMULSIFY THE OILS AND RUN DOWN THE SURFACE. A DRY SURFACE WILL LEAVE RUN MARKS WHERE A PRE-WETTED SURFACE WILL NOT! SAVE ADDITIIONAL CLEANING LATER!*

- Allow appropriate dwell time. Three, up to fifteen minutes depending on the material and extent of damage, then rinse using clean water applied through the Mini Eliminator Soft Spray System (or low volume pressure washer), using the pressure to eliminate visible traces of smoke and soot. Alternatively, wipe away with microfibre cloths.
- Damp wiping with clean towels or square, flat mops are appropriate to clean and remove loads from larger surface areas such as walls.

- 1) Dry standard: Ensure building materials are returned to the applicable dry standard.

- 2) Final Odour Removal: Serum 1000

- Once residues have been removed, apply Serum 1000 (and accelerator) with the Mini Eliminator Soft Spray System to neutralise odours and staining. Serum 1000 swiftly targets and oxidizes the carbon compounds responsible for the lingering smoke odour often associated with fire-damaged spaces.
- Pay attention to hard to clean areas like butt joints, sill plates and sistered joists making sure you focus spray to penetrate deep into these.
- Allow Serum 1000 to penetrate the substrate and leave to dwell until dry.
- Nothing further is needed, however concrete may be rinsed and allowed to drain away where other substrates may be HEPA vacuumed, or damp mopped if needed.

## PROPERTIES

- Shelf Life: Guaranteed 1 year from date of purchase.
- Coverage:
  - Non-Porous Surfaces up to 8.6 Sprayable M<sup>2</sup>/Litre
  - Porous Surfaces up to 7.3 Sprayable M<sup>2</sup>/Litre
- Minimum Application Temp: 4.5 Degrees Celsius
- Maximum Application Temp: 35 Degrees Celsius
- Drying Times: To touch approximately 1 Hour.
- Dilution: May be mixed with up to 10 parts water.
- Do not allow to Freeze!



# EXAMPLE METHODOLOGIES FROM AUSTRALIAN RESTORERS:



## Windows and Timber Reveals

Most effective dilution rate is 1:1.

Apply SR solution using spray applicator ensuring thorough coverage of the effective surfaces.

Allow product to dwell for 3-5 minutes.

Lightly scrub and wipe off using microfibre cloths.

## Kitchen and Vanity Cabinetry

Most effective dilution rates are 1:1 or 5:1 if required.

Apply SR solution using spray applicator ensuring thorough coverage of the effective surfaces.

Allow product to dwell for 3-5 minutes.

Lightly scrub and wipe off using microfibre cloths.

## Plasterboard or Fibre Cement Sheeting

HEPA vacuum to remove loose surface soiling.

Most effective dilution rates are:

Light Soiling 10:1.

Medium Soiling 10:1 or 5:1 if required.

Heavy Soiling 1:1 or undiluted if required.

Apply Serum SR using the Mini Eliminator working upwards and ensuring thorough coverage of the effective surfaces. For large surfaces divide the affected area into sections as product can dry quickly.

Allow to dwell for approximately 3 minutes.

Scrub surfaces using a non-scratch scourer and wipe off using microfibre cloth.

For medium and heavily soiled surfaces some staining may remain but will have been neutralised preventing material degradation and eliminating odours.

## SAFETY

Water resistant to waterproof full body Tyvek or like suits with booties and hood. Should be properly sized and worn to manufactures specifications.

Chemical resistant gloves, full facial protection with P-100 AG (acid-gas) OV (organic-vapor) Yellow/Magenta cartridges installed, used, and changed to manufactures specifications.

Do not spray into electrical outlets and care should be taken to contain/protect all electrical switches, junction boxes and electrical equipment. It is recommended to guard against overspray when spraying around CPVC fire suppression pipe and proper engineering controls and containment should be done.

Keep out of reach of children. Do not ingest. When not in use, keep container tightly closed and store in a cool, clean dry space. Do not dispose of unused portions into waterways, creeks, rivers, estuaries, or oceans. Do not refill or reuse empty containers.



 07 5523 0554

 [sales@restorationinnovations.au](mailto:sales@restorationinnovations.au)

 3/22 Industry Drive, Tweed Heads South NSW 2486

