

# Scotch™ Sprays



**3M** *Reliability*

# Scotch™ Sprays

The Scotch™ Spray product range consists of a number of different insulating, cleaning, protective and preventative maintenance sprays.

These products should form a major part of any maintenance programme, from preventative action to repairing damage in all electrical and electronic environments. By safeguarding the quality and function of technical equipment and accessories, service life can be considerably increased.

All of these Scotch™ Sprays are complying with all european legal requirements including safety instructions printed on all spray cans. Alternatively this information on material and safety data sheets can be obtained from your local distributor or directly from 3M, at all times.

## Protective sprays :

### Anti-corrosion Spray

*1600 Spray (400ml)*

Scotch™ 1600 provides highly effective anti-corrosion protection. It's rubber-asphalt base forms a dense, abrasion resistant covering, that protects against moisture, spray salt water, all corrosive media and is resistant to the effects of physical impacts.

### Zinc Spray

*1617 Spray (400 ml)*

Scotch™ 1617 is an ideal cold galvanizer, that provides permanent protection against rust and corrosion by electrochemically bonding with the metal surface it is sprayed onto. Scotch™ 1617 has excellent adhesion to iron and steel, is resistant to weathering, UV radiation, moisture, heat up to 500°C, alkaline solutions and mineral oils. It is an ideal primer for metal constructions, and complies with DIN 50976 (zinc content) and DIN 53167 (corrosion protection).

## Insulating sprays :

### Clear Insulating Paint

*1601 Spray (400 ml)*

Scotch™ 1601 is a clear insulating and covering paint based on alkyd resin. It "hardens" into a flexible and resistant film, with excellent adhesion to most common surfaces such as metal, glass, plastic, wood, etc.

Scotch™ 1601 is resistant to UV-rays, acids, oil and alkalis, it is moisture and weatherproof and is especially characterized by its high dielectric strength.

### Coloured Insulating Paints

*1602/3/4 Spray (400 ml)*

As Scotch™ 1601 but with the addition of colouring pigments for coloured protection, insulation or marking. 1602 = red, 1603 = black, 1604 = grey.

3M 1600



3M 1605



3M 1617



## Preventative maintenance sprays :

### Dehumidifier

#### 1605 Spray (400ml)

Scotch™ 1605 penetrates and displaces moisture. It also defrosts frozen sections. Scotch™ 1605 then forms a thin protective film and thus prevents the renewed ingress of moisture. It is completely neutral toward paints, plastics, rubber and fabrics. It is effective over a wide temperature range from - 74°C to + 175°C.

### Silicone Spray

#### 1609 Spray (400ml)

Scotch™ 1609 is a general use product for preventative maintenance, protection and lubrication. It lubricates moving parts, without becoming resinous and can be used over a wide temperature range (- 32 °C to + 177 °C) thereby, providing long lasting protection against moisture and corrosion. Scotch™ 1609 is neutral towards paints, plastic, rubber, foamed materials, wood and fabrics.

3M 1626



## Cleaning sprays :

### Special Contact cleaner

#### 1625 Spray (400 ml)

Scotch™ 1625 loosens dirt, light oxide layers and impurities of every kind in an effective gentle manner. Scotch™ 1625 is electrically neutral and totally residue-free, making it ideal for use in almost any environment as a spray cleaner.

### Degreasing and Cleaning Spray

#### 1626 Spray (400 ml)

Scotch™ 1626 is an ideal dissolving cleaner for greases, oils, lubricants, resins and tar. It is residue-free, non-corroding and washes away asbestos. Scotch™ 1626 may corrode plastics.

3M 1633



### Rust Remover

#### 1633 Spray (400ml)

Scotch™ 1633 is a multi-purpose spray. It loosens rust, protects against moisture and renewed oxidation, can be used ideally as a lubricant, easily releases tightly sealed bolts, and has a high penetration capacity.

### Multi Five

#### 1640 Spray (400ml)

**New**

Scotch 1640 Multi Five is a general purpose spray. Due to unique additives, Scotch 1640 Multi Five provides excellent capillarity activities, lubricating, corrosion and cleaning properties, adhesion to metals and an extreme low surface tension. Therefore Scotch 1640 Multi Five is able to release screws and remove dirt like adhesives, tar.

It displaces water immediately which avoids tracking currents. The high dielectric strength allows to use Scotch 1640 for sensitive switch connections. Multi Five spray is furthermore silicone and graphite free and neutral to various surfaces (plastic, rubber, printings).

3M 1640



Protective sprays :

Insulating sprays :

Preventative maintenance spray

**1600  
Anti-Corrosion  
Spray**

**1617 Zinc Spray**

**1601 Sealer (clear)**

**1602 Sealer Red  
1603 Sealer Black  
1604 Sealer Grey**

**1605  
Dehumidifier Spray**

**1609 Silicon  
Lubricant**

|                                       |   |   |  |   |  |   |
|---------------------------------------|---|---|--|---|--|---|
| <b>Application</b>                    | Corrosion protection on: pipes and supports, welds on bitumen protected pipes, cable racks, switch an control cabinets, battery containers.   | Through electrochemical bonding with metal, it provides lasting protection against rust and corrosion, even on damaged surfaces. Ideal as a protective covering and as a primer for exposed metal construction. Damaged zinc layers can be repaired quite easily. | As a protective coating on electrical connections, switches, switchgear, terminal boards, electronic components, printed circuits, coils, windings and laminated cores. In addition, for use on electrical equipment in vehicles and for repairing electric motors. Also suitable as a flexible covering on construction drawings and similar items. | As a protective coating on electrical connections, switches, switchgear, terminal boards, electronic components, printed circuits, coils, and windings. In addition, for use on electrical equipment in vehicles and for the repair of electric motors. | Electrical and electronic equipment, switches, relays, motors, batteries, ignition systems, tools, instruments, threads, etc.  | Lubrication: electrical equipment, locks, hinges, other mechanical parts. Protection against moisture and corrosion on outdoor plant and equipment, polished surfaces, shafts, plastic, leather, etc. |
| <b>Colour</b>                         | Black   | Grey  | Clear  | Red   | Beige  | Clear   |
| <b>Content</b>                        | 400 ml  | 400 ml  | 400 ml   | 400 ml  | 400 ml   | 400 ml  |
| <b>Base</b>                           | Modified styrene-butadiene rubber (SBR)   | Zinc dust   | Modified acrylic resin   | Modified acrylic resin  | Treated heavy naphthenic petroleum distillate  | Silicone oil  |
| <b>Solvent</b>                        | Aromatic hydrocarbons<br>Petroleum distillates  | Aliphatic and aromatic hydrocarbons   | Aliphatic and aromatic hydrocarbons  | Aliphatic and aromatic hydrocarbons   | Aliphatic hydrocarbons<br>Petroleum distillates  | Petroleum distillate  |
| <b>Propellant</b>                     | Propane butane  | Propane butane  | Propane butane   | Propane butane  | Propane butane   | Propane butane  |
| <b>Adhesion</b>                       | Excellent   | Excellent   | Excellent  | Excellent   | Very good  | Very good   |
| <b>Moisture absorption</b>            | None  | Slight  | Slight   | Slight  | Slight   | None  |
| <b>Dielectric strength</b>            | N/A   | N/A   | 40kV/mm  | 34kV/mm   | N/A  | N/A   |
| <b>Hardening at room temperature:</b> |   |   |  |   | N/A  | N/A   |
| <b>dust dry</b>                       | 1-2 hours   | 15 minutes  | 15 minutes   | 15 minutes  |  |   |
| <b>fully hardened</b>                 | about 4 hours   | 120 minutes   | 120 minutes  | 60 minutes  |  |   |
| <b>Temperature stability</b>          | 80° C   | Up to 500°C   | After 700 hours/+120°C   | After 700 hours/+120°C  | -74°C to + 175°C   | -32°C to + 177°C  |
| <b>Surface resistance</b>             |   | N/A   | 1 x 10 <sup>12</sup> cm  | N/A   | N/A  | N/A   |
| <b>Processing</b>                     | Build up layer thickness slowly and evenly. No deterioration of the layer at thicknesses up to about 3mm. When sprayed at a distance of 30 to 40 cm, an application width of 5 to 8 cm is produced. | Surfaces to be coated must be clean and grease-free. Prior cleaning is recommended with Scotch™ 1626 or Scotch™ 1625.   | Surfaces to be coated must be clean and grease-free.   | Surfaces to be coated must be clean and grease-free.  | Dehumidification: spray a thin film onto the surface. After about 30 seconds, the moisture will dry out. Where necessary, repeat the process. Corrosion protection: apply a medium thick film, where necessary, repeat the process. Defrosting: apply a thick layer. After 15 to 30 seconds, repeat where necessary. The enclosed spray pipe permits access to difficult to reach areas. | The enclosed spray pipe permits access to difficult to reach areas.   |

|   | Cleaning sprays :  |  |  |  | Special products   |  |
|---|--|--|--|--|--|--|
|   | 1625 Special Contact Cleaner   | 1626 Degreasing Spray  | 1633 Rust Remover  | 1640 Multi-Five Spray  | 1632 Cooling Spray   | 1638 Compressed Air  |
| Electrical switches, moving contact, damaged component, wires and rubber, | Switches, relays, r.c.d. protection, instrumentation, time switches, computer heads, light-duty contacts for video and magnetic heads.   | Ideal for dissolving greases, oils, resins and tar everywhere on electrical equipment, switches, safety cut-outs, motors and generators. | Inhibits rust and corrosion. Displaces moisture, dries out electrical equipment (ignition systems, generators, motors, etc.). Forms a moisture barrier to help prevent trouble before it starts. | Scotch 1640 Multi Five is a general purpose spray. Due to unique additives, Scotch 1640 Multi Five provides excellent capillarity activities, lubricating, corrosion and cleaning properties, adhesion to metals and a extreme low surface tension. Therefore Scotch 1640 Multi Five is able to release screws and remove dirt like adhesives, tar. It displaces water immediately and avoids tracking currents. The high dielectric strength allows to use Scotch 1640 for sensitive switch connections. Multi Five spray is furthermore silicone and graphite free and neutral to various surfaces (plastic, rubber, printings). | Refrigeration by supercooling within seconds to -40°C, Scotch 1632 localize thermal defects. Assists in repairs to electronic products: transistors, diodes, resistors, capacitors and semiconductors. | Universally applicable especially in hard to reach areas; eg. Cracks scratches, joints, gaps in keyboards or any other nook or cranny. Ideal cleaning product to remove dirt from awkward areas. |
|   | Clear  | Clear  | Clear  | Clear, bluish  | Clear  | N/A  |
|   | 400 ml   | 400 ml   | 400 ml   | 400 ml   | 400 ml   | 400 ml   |
|   | N/A  | N/A  | Mineral oil<br>Molybdenum sulfide  | Special additives  | N/A  | N/A  |
| Distillates   | White spirit   | White spirit/acetone   | Petroleum distillates  | Aliphatic hydrocarbon paraffinic mineral oil   | N/A  | N/A  |
| Gas   | Propane butane<br>Carbon dioxide   | Propane butane<br>Carbon dioxide   | Propane butane   | Propane butane   | Propane butane   | Propane butane   |
|   | N/A  | N/A  | Good   | N/A  | N/A  | N/A  |
|   | None   | None   | Slight   | N/A  | N/A  | N/A  |
|   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |
|   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |
| Temperature   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |
|   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |
| Spray access to hard to reach areas.                                      | By brief periodic spraying, dissolved impurities are cleaned away. Best results are obtained where the item to be sprayed on is at room temperature. The supplied spray pipe permits access to difficult to reach areas. This contact cleaning spray may corrode rubber. | Spray uniformly and allow to act. Simply wipe dirt away. Where necessary, repeat the process. Can attack plastics.                       | Spray specifically onto affected areas and allow to act. The process may have to be repeated for stubborn corrosion.   | The surfaces of the parts should be cleaned before spraying. Scotch 1640 Multi Five should be sprayed uniformly and generously. Repeat, if necessary. A tube is attached to the can, for those parts that are difficult to reach. Repeat spraying also from time to time to keep full effectiveness. For the removal of Scotch 1640 Multi Five most of the commercially available cleaning agents can be used.   | By applying short sprays bursts on to the source of the problem, the alternation of hot & cold will assist in diagnosis.   | The enclosed spray pipe permits access to even the hardest to reach areas.   |



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