

# Product Information

## Textile



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DOW CORNING

# DOW CORNING® 2202A

## Solvent-Based Reactive Silicone Fluid

### FEATURES

- Premium water repellent performance
- Soft handle
- Air-drying, no heat cure necessary

A topical treatment for water repellent finishing of textile fabrics and leather; air drying

### APPLICATIONS

- Water repellent finishing of fabrics.
- Water repellent finishing of leather.

### TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

CTM*	ASTM*	Property	Unit	Value
0158		Non-volatile matter	%	40
0004	D445	Viscosity at 25°C (77°F)	mm <sup>2</sup> .s <sup>d1</sup>	10
		Flash point, Abel c.c., minimum	°C/°F	23/73.4
0001A	1298	Specific gravity at 25°C (77°F)		0.89
0005		Color		Pale yellow
		Diluent		White spirit

\* CTM: Corporate Test Method, copies of CTMs are available on request.  
ASTM: American Society for Testing and Materials.

### DESCRIPTION

Textile manufacturers can use DOW CORNING 2202A Solvent-Based Reactive Silicone Fluid to give water repellency without affecting the texture or wearing characteristics of the fabrics. It is a dispersion of a reactive silicone in white spirit, which when applied to surfactant-free fabrics, laminates and leather, gives a high degree of water repellency.

### BENEFITS

Apart from a high degree of water repellence, leather treated with DOW CORNING 2202A Solvent-Based Reactive Silicone Fluid exhibits the following advantages compared to untreated leather:

- Better resistance to water staining.
- Mud brushes off more easily.
- Improved resistance to water penetration on flexing.

### HOW TO USE

DOW CORNING 2202A Fluid should be diluted in solvent before use. Suitable solvents are aliphatic or aromatic hydrocarbons, ethyl, n-butyl or amyl acetates or methyl ethyl ketone. The solvent and container should be thoroughly dried before using. It is advisable to check the effect of treatment with DOW CORNING 2202A Fluid on color of the substrate before full scale use as some discoloration may be noticed.

### FABRIC TREATMENT

To avoid re-wetting problems, the fabric should be free from surface active agents before applying DOW CORNING 2202A Fluid. A variety of application techniques can be used: for example, padding, lick roller, spraying, immersion.

The required application amount

depends on the fabric and the level of water repellence required and is generally between 1.5% and 3% by weight of DOW CORNING 2202A Fluid on the weight of fabric. Trials are recommended to optimize this level.

After treatment, the fabric should be air dried to remove solvent and to allow the water repellence to develop. This normally takes 3 days but can be reduced by a short heat cure. (45°C or 113°F)

## LEATHER TREATMENT

DOW CORNING 2202A Fluid can be used on a wide variety of leathers, including side upper leather, suede calf skins, garment leathers and imitation suede. It can be applied in the tannery by dipping, curtain coating, padding or spraying. Made up goods can be treated by spraying. For maximum water repellence it is necessary to ensure complete penetration of the leather by the silicone solution. When no pigment finish is used, the silicone solution should preferably be applied from both sides to obtain good penetration. Where a pigment finish is required, apply the silicone solution to the flesh side only to avoid adhesion problems on finishing.

Full chrome grain, suede shoe, garment or gloving leather

Apply ca. 15% by weight of leather:  
150 parts DOW CORNING 2202A Fluid  
50-300 parts solvent

Suede splits

Apply to the suede side at ca. 15% on weight of leather:

150 parts DOW CORNING 2202A Fluid  
450 parts solvent

Semi-chrome aniline bag leather

To avoid water spotting and maintain the appearance of the leather, apply ca. 200cm<sup>3</sup> of following solution per square meter of leather:

100 parts DOW CORNING 2202A Fluid  
300 parts solvent

Improved crock fastness on suede leather

Apply ca. 200cm<sup>3</sup> of following solution per square meter of leather, after buffing and brushing:

100 parts DOW CORNING 2202A Fluid  
450 parts solvent

## HANDLING PRECAUTIONS

Since water tends to form an insoluble precipitate with DOW CORNING 2202A Fluid, care should be taken to avoid water contamination of material in store or in use. Opened containers should be resealed tightly.

DOW CORNING 2202A Fluid contains organic solvents which are inflammable. Users should be familiar with the hazards involved in using solvent containing materials and diluents in processing.

**PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.**

## USABLE LIFE AND STORAGE

When stored at or below 40°C (104°F) in the original unopened containers, this product has a usable life of 24 months from the date of production.

## PACKAGING

This product is available in 160kg drums.

Samples are available in 1kg pack sizes.

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

## WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.