



Technical Data Sheet

DOWSIL™ 2202A Textile Finish

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

Features & Benefits

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

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.

CTM ¹	ASTM ²	Property	Unit	Result
0158		Non-volatile matter	%	40
0004	D445	Viscosity at 25°C (77°F)	mm ² .s ²¹	10
		Flash point, Abel c.c., minimum	°C	23
			°F	73.4
0001A	1298	Specific gravity at 25°C (77°F)		0.89
0005		Color		Pale yellow
		Diluent		White spirit

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

Description

Textile manufacturers can use DOWSIL™ 2202A Textile Finish 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 DOWSIL™ 2202A Textile Finish 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

DOWSIL™ 2202A Textile Finish 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 DOWSIL™ 2202A Textile Finish 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 DOWSIL™ 2202A Textile Finish. 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 DOWSIL™ 2202A Textile Finish 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

DOWSIL™ 2202A Textile Finish 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 DOWSIL™ 2202A Textile Finish
50–300 parts solvent

Suede Splits

Apply to the suede side at ca. 15% on weight of leather:
150 parts DOWSIL™ 2202A Textile Finish
450 parts solvent

Semi-chrome Aniline Bag Leather

To avoid water spotting and maintain the appearance of the leather, apply ca. 200 cm³ of following solution per square meter of leather:
100 parts DOWSIL™ 2202A Textile Finish
300 parts solvent

**Leather Treatment
(Cont.)****Improved Crock Fastness on Suede Leather**

Apply ca. 200 cm³ of following solution per square meter of leather, after buffing and brushing:

100 parts DOWSIL™ 2202A Textile Finish

450 parts solvent

**Handling
Precautions**

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

DOWSIL™ 2202A Textile Finish 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 IN THIS DOCUMENT. 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 ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**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
Information**

This product is available in 160 kg drums.

Samples are available in 1 kg 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 has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

**Disposal
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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