

3M Advanced Materials Division

3M™ Stain Resistant Additive and Sealer SRA-451

For Porous Hard Surfaces

Introduction

3M™ Stain Resistant Additive and Sealer SRA-451 is a fluorochemical acrylic resin concentrate in ethyl acetate designed for industrial application to porous hard surfaces such as concrete, marble, granite, terracotta, etc. Properly applied, SRA-451 additive imparts excellent and durable water, oil and stain repellent properties as well as dirt pick-up resistance on all types of porous hard surfaces. The substrate's natural characteristics are generally unaffected by the application of this product. Be sure to evaluate the 3M product for compatibility in your particular application before using.

Product Safety and Handling

SRA-451 is intended for use in non-dispersive and non-emissive applications. 3M does not recommend this product for use in applications involving repeated exposure through skin contact, inhalation or ingestion. It is not intended for food contact, cosmetic, medical or pharmaceutical usage. Neither 3M nor the U.S. Food and Drug Administration has evaluated or reviewed this product for food, cosmetic, medical or pharmaceutical applications. Please read and follow

the precautions and directions for use in the product label and Safety Data Sheet before using this product. Safety Data Sheets for this product are available from 3M Customer Service at 1 800 367 8905 or from your local 3M sales representative.

Typical Physical Properties

(Not for specification purposes)

Property	Typical Values
Appearance	Yellowish, viscous liquid
Typical Analysis	25% Solids 75% Ethylacetate
Density	1 kg/liter
Flash point	-4°C (25°F)
Boiling point	77°C (171°F)
Shelf Life	2 years from date of manufacture
Shipping & Storage	Red Label, flammable material. SRA-451 should not be stored at temperatures > 50°C (122°F)

All values determined at 77°F (25°C) unless otherwise specified.

***Note:** SRA-451 additive should not be stored at temperatures >50°C (>122°F). SRA-451 additive is freeze/thaw stable to -23°C (-10°F).

Packaging

3M stain resistant additive SRA-451 is currently available in:

- 27 kg (5 gal) pails
- 185 kg (30 gal) drums

Typical Application/ Formulation

Stain Resistant Additive and Sealer SRA-451 can be added to an existing solvent based formulation or can be diluted with non-polar solvents and used as a penetrating sealer. The choice of solvent, solvent grade or solvent blend influences the solubility and the oil and water repellency of SRA-451 additive.

Any proposed formula should be checked for compatibility, solubility and performance. SRA-451 concentrate can be used as an additive to a number of commercial solvent-based coating and sealer formulations. Stain Resistant Additive SRA-451 can also be added to the 100% silane or the solvent based silane formulations to enhance the oil and stain resistant properties of silane formulations. Typical recommended additive levels (as additive or as stand-alone sealer) are from 0.2-3.0% active material. The additive level is dependent upon the substrate and degree of stain resistance desired. Typical co-solvents include Dowanol™ DPM and Proglyde™ DMM.

3M AdMD can provide technical assistance, if desired.

***Note:** When using solvents and other chemicals, be sure to follow the manufacturer's precautions and directions for use for handling such materials.

Solubility of SRA-451 at 1% solids

Ethers Diethylether	Soluble
Diisopropylether	Soluble
Proglyde DMM	Soluble
Ketones Acetone	Soluble
Methylethylketone	Soluble
Methylisobutylketone	Soluble
Esters Ethylacetate	Soluble
Butylacetate	Soluble
Isoamylacetate	Soluble
Aklanes n-Heptane	Soluble
Isoparaffnes	Soluble
Alcohols Isopropanol	Insoluble
Methoxypropanol	Insoluble
Dipropylene glycol monomethylether	Insoluble
Mixtures 75/25 IPA/Butylacetate	Soluble
75/25 IPA/Heptane	Soluble

Suggested Formula (by weight)

80 to 120 g SRA-451	920 to 880 g non-polar solvent or solvent blend
100 g SRA-451	0 to 100 g Dipropylene glycol mono methyl ether 900 to 800 g Isoparaffines

This formulation can be applied by brush, roller, spray, sponge or equivalent to porous materials such as granite, concrete, terracotta, marble, etc.

For any aerosol application, please contact 3M AdMD for 3M Aerosol Risk Management Procedure.

***Note:** Suggested formulations are offered only as a starting point for the user's consideration. The user is responsible for evaluating and determining the suitability of any formulation and the use of a 3M product in a formulation. The user should check any formulation for, among other things, compatibility, solubility and performance.

3M Resources

To request a sample, place an order or request additional information, please contact your local 3M representative, an authorized 3M distributor or call 3M Customer Service at 1 800 367 8905.

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