



# Enhancing Performance & Value

Formulators and manufacturers around the world rely on 3M additive technologies to help reduce costs, improve quality and add more customer-pleasing properties to a broad range of architectural and industrial paints, adhesives and specialty coatings.

**These proven technologies include:**

**3M™ Novec™  
Fluorosurfactants**

**3M™ Ceramic Microspheres**

**3M™ Glass Bubbles**

**3M™ Stain Resistant Coatings**

**3M™ Easy Clean Coatings**

**3M™ Performance Coatings**

**3M™ Protective Materials**

[www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings)

**3M**

# 3M™ Novec™ Fluorosurfactants



Advanced wetting and leveling agents, used to improve performance in a broad range of aqueous and solvent-borne coatings.

For more information and document downloads, go to [www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings) or contact us at 800-367-8905.

## Features

- Fluorosurfactants are effective at very low addition levels, 0.1-0.5%

## Advantages

- Reduces interfacial surface tension

## Benefits

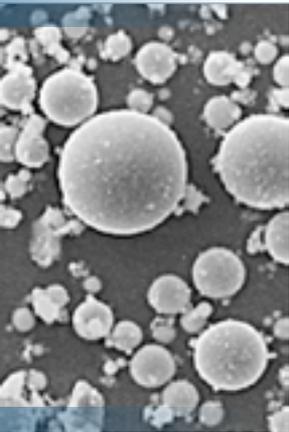
- Efficiency allows for extremely low addition levels and surface tensions only achievable with a fluorosurfactant

## Typical Applications

- Waterborne, solvent-based, high solids and radiation curable organic polymer coating systems.

## Menu

# 3M™ Ceramic Microspheres



High-strength, fine particle fillers used for improved abrasion resistance, gloss control and more.

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## Features

- High Strength
- Spherical
- Inert fine particles
- High hardness

## Advantages

- “Ball bearing” effect of spherical fillers
- UV transparent to 250nm
- High filler loadings due to inert nature

## Benefits

- Allows through cure in UV curing systems
- Allows high filler loadings
- Can control gloss
- Gives a tough finish to a coating
- Helps burnish resistance

## Typical Applications

- Architectural and Industrial Paints
- Automotive Primers
- Decorative Paints
- UV Curing Lacquers and Adhesives
- Industrial Coatings

## Menu

# 3M™ Glass Bubbles



Hollow glass spheres used for density reduction, reduced shrinkage and more.

For more information and document downloads, go to [www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings) or contact us at 800-367-8905.

## Features

- Spherical shape
- Average particle sizes range from 17-65  $\mu$ , and s.g. 0.6 to 0.12 kg/m<sup>3</sup>
- Inert fine particles
- Made from specially formulated chemical resistant glass

## Advantages

- Reduced resin demand
- Low thermal conductivity
- High strength to weight ratio
- Chemically stable soda-lime borosilicate glass

## Benefits

- Lower viscosity
- Improved flow
- Weight reduction
- Survives processing
- Easy to disperse
- Can increase insulative properties

## Typical Applications

- Paints & coatings
- Injection molded extruded polymers
- Construction materials
- Cast thermoplastic and thermoset polymers
- Potting compounds
- Spray-up/lay-up
- Syntactic foam
- Sealants

## Menu

# 3M™ Stain Resistant Coatings



Aqueous polyurethane dispersion for enhancing stain resistance and release characteristics.

For more information and document downloads, go to [www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings) or contact us at 800-367-8905.

## Features

- Easy to dilute fluorinated polyurethane dispersion

## Advantages

- Can be used as a penetrating sealer or as a concentrate additive to many commercially available coatings and sealers
- Can be added to almost any system to provide stain resistance and release

## Benefits

- Substrates coated with this dispersion are easier to clean, and maintain their appearance longer.

## Typical Applications

- Concrete
- Grouts
- Unglazed Tiles
- Porous Stone

## Menu

# 3M™ Easy Clean Coatings



Clear treatments designed to make ceramic ware, shower glass and glazed wall tile easier to clean.

For more information and document downloads, go to [www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings) or contact us at 800-367-8905.

## Features

- Factory-applied coating for ceramics that reduces the surface energy

## Advantages

- Soils and liquids tend to “slide off” surfaces treated with ECC coatings, helping to prevent build-up and extend the time between cleanings

## Benefits

- Resists stains, particularly oil-based stains
- Easy to remove hard water deposits
- No need for aggressive cleaners

## Typical Applications

- Bathroom tiles
- Glass shower enclosures
- Sanitary ware

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# 3M™ Performance Coatings



Durable polyurea-based compositions used as a protective coating.

For more information and document downloads, go to [www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings) or contact us at 800-367-8905.

## Features

- Two-component liquid polyurea formulations

## Advantages

- Retains flexibility
- Low water absorption

## Benefits

- Excellent resistance to abrasion, impact and wear
- “Self-healing” if punctured
- Helps provide corrosion protection

## Typical Applications

- Thermal insulation
- Flexible or rigid flame retardant barriers
- Low surface energy coatings

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# 3M™ Protective Materials



Provides water, oil and stain repellency to porous hard surfaces such as stone and concrete.

For more information and document downloads, go to [www.3M.com/paintsandcoatings](http://www.3M.com/paintsandcoatings) or contact us at 800-367-8905.

## Features

- Water miscible fluoropolymer dispersion

## Advantages

- Makes clean up of common spills and drips easier
- Helps prevent stains from setting

## Benefits

- Provides water, oil, and stain repellency to porous hard surfaces
- Stands up well to automobile and foot traffic

## Typical Applications

- Concrete
- Grout
- Unglazed tile
- Granite
- Clay
- Slate
- Limestone
- Terra Cotta

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