



innovative chemical technologies, inc.

A Specialty Chemicals Manufacturer



Product Catalog

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Innovative Chemical Technologies, Inc. (ICT) manufactures a broad range of surface modification technologies, primarily specialty surfactants and polymers. The following is a partial listing of ICT's most popular raw materials designed for formulators seeking unique properties and exceptional performance to differentiate their products from competition. These raw materials are most useful for formulating and enhancing cleaners, protectors, coatings and inks.

Fluorinated Surfactants

Note that fluorosurfactants in a concentrated form often stratify or phase separate, even if it is not visible to the naked eye. ICT recommends that all fluorosurfactants be mixed before use.

Additionally, many anionic fluorosurfactants can be sensitive to hard water. ICT recommends that deionized or softened water be used when available. Tap water should only be used after first examining for evidence of precipitation of the particular anionic fluorosurfactant under consideration.

Anionic

Flexiwet AB-28

VOC free, low foaming, wetting and leveling agent used in a variety of coating applications. Provides release properties to adhesives and antiblocking in paints.

Flexiwet DST

VOC free, optimized fluorosurfactant mixture designed to provide fast equilibrium and rapid dynamic surface tension reduction.

Flexiwet NF

Unique fluorosurfactant that provides defoaming and exceptional wetting properties to formulated systems. Extreme chemical/thermal stability allows for use in very harsh environments including strong acids, bases, and most oxidizers.

Flexiwet NF-80

Highly concentrated (semisolid paste) form of Flexiwet NF.

Flexiwet PD-100

Low melting, waxy solid (100% active) fluorosurfactant (unneutralized, free acid form) for use in non-aqueous, solvent or solvent-free (solid) formulations.

Flexiwet PD-15

VOC free, low foaming, diethanolamine salt with excellent oil and grease repellency. Meets FDA guidelines for use in certain food contact paper applications.

Flexiwet PD-30EB

Moderate foaming fluorosurfactant that provides dense/stable foam in alcohol/water mixtures. Meets FDA guidelines for use in certain food contact paper applications.

Flexiwet RFS-20A

Moderate foaming, anionic fluorosurfactant with excellent wetting and leveling properties. Useful in hard water applications without chelation. Useful in spin finish lubricants. Stable in tap/hard water.

Nonionic

Flexipel AM-101

Fluorinated polymer (not a surfactant) that reduces surface tension and provides dense/stable foam in alcohols, glycols, glycol ethers, and mixtures thereof.

Flexiwet NI-55

100% active, EO/PO type fluorosurfactant in liquid form. Used in aqueous, non-aqueous, and solvent-based formulations.

Flexiwet NI-M

EO type fluorosurfactant that provides excellent wetting properties in aqueous formulations. Useful at very low concentrations (0.01% or less). Excellent chemical/thermal stability. Useful as a wetter/leveling agent to remove surface defects in coating and adhesive formulations.

Flexiwet NI-M100

Low melting, waxy solid (100% active) version of Flexiwet NI-M for use in aqueous, non-aqueous, and solvent-based formulations.

Flexiwet NI-S

EO type fluorosurfactant that provides extremely low surface tension at very low use levels (0.01% or less). Low foaming and stable in harsh chemical environments including strong acids, bases, and most oxidizers. This product has very limited water solubility.

Flexiwet NI-S100

Waxy, semisolid (100% active) version of Flexiwet NI-S for use in non-aqueous and solvent-based formulations.

Flexipel S-11WS

Fluorinated polymer dissolved in odorless mineral spirits. Provides excellent foaming and surface tension reduction in most hydrocarbon solvents/mixtures. Useful in improving the penetration of solvent-based degreasers.

Amphoteric/Cationic

Flexiwet AT-20

Amphoteric fluorosurfactant used to reduce surface tension and to foam aqueous solutions. Provides surface tension below 20 dynes per cm using as little as 0.005%. Stable in hard water. Builds tremendous, dense/stable foam at neutral pH.

Flexiwet Q-22

Cationic fluorosurfactant that functions in high salinity and hard water environments. Stable in systems employing quaternary dispersants, disinfectants, and emulsifiers. Product of choice for formulations containing cationic materials.

Hard Surface Products

ICT offers a wide range of water, water/co-solvent, and solvent dispersible fluorinated resins used to protect hard surfaces from oil, alcohol and water based stains and soils (i.e. cooking oils, motor oils, wine, foodstuffs, Kool Aid®). Unlike silicone resins that provide protection from only water-based stains and impart a gloss that alters the appearance of the treated surface, ICT's fluorinated resins provide a broad spectrum of repellency (oil, alcohol and water) and dry to an invisible barrier with no sheen or gloss maintaining the original appearance and feel of the treated surface. End use formulations are suitable for multiple markets including commercial, retail and industrial applications.

Stone/Concrete/Grout Protectors

Flexipel PAF-30

Water-based, ambient cure, soil and stain (oil/water) repellent used to create vapor permeable, penetrating sealers/protectors that are applied to hard surfaces including virtually all stone types, mortars, grouts, and concrete. Readily disperses in water only or water/co-solvent mixtures to produce concentrated and/or ready-to-use ultra low VOC, end-use products.

Flexipel S-22WS

Solvent-based, ambient cure, soil and stain (oil/water) repellent used to create vapor permeable, penetrating sealers/protectors that are applied to hard surfaces including virtually all stone types, mortars, grouts, and concrete. Readily disperses in carrier solvents to produce concentrated and/or ready-to-use, VOC compliant, end-use products.

Flexipel ASP

Water-based, ambient cure, soil and stain (oil/water) repellent used to create vapor permeable, penetrating sealers/protectors that are applied to hard surfaces including virtually all stone types, mortars, grouts, and concrete. Readily disperses in water only or water/co-solvent mixtures to produce concentrated and/or ready-to-use, low VOC, end-use products. While Flexipel ASP offers protection to a broad range of hard surfaces, it has been designed to provide optimal performance on grouts and mortars.

Flexipel MMP-25

Water-based, ambient cure, soil and stain (oil/water) repellent used to create vapor permeable, penetrating sealers/protectors that **contain a durable antimicrobial** which will protect the sealer from growth of mold, mildew and many undesirable types of bacteria. Protectors manufactured from this product are applied to hard surfaces including virtually all stone types, mortars, grouts, and concrete. Readily disperses in water only or water/co-solvent mixtures to produce concentrated and/or ready-to-use ultra low VOC, end-use products.

Flexipel EC-40

Water dilutable, concentrated, aqueous stone enhancer and protector. Provides protection from water and oil based stains and brings out depth of color to enhance color contrast in stones such as slate and fieldstone. Imparts little or no gloss.

Wood/Laminate Protectors

Flexipel AM-99

Water-based, ambient cure, soil and stain (oil/water) repellent used to create vapor permeable, penetrating sealers/protectors that are applied to hard surfaces including wood, composites, and laminates. Readily disperses in water to produce concentrated and/or ready-to-use, low VOC, end-use products.

Flexipel S-22WS

Fluoropolymer dissolved in odorless mineral spirits. Upon dilution in hydrocarbon solvents, either alone or in combination with other materials, the end-use product can be brush, roller or squeegee applied to wood to impart water and oil repellency. When added to solvent-based deck stains, it imparts stain and soil (oil/water) repellency and water beading to treated surfaces. An excellent choice to use as a seam sealer for laminate flooring.

Cleaners

Flexibrite TM-300

Water-based dispersant polymer used to create 5th generation Daily Shower Cleaners. Readily dissolves in water to produce low VOC, end-use products that provide an invisible sacrificial barrier to treated surfaces that resists soils (soap scum, body oils) and hard water spotting. Dries clear without hazing or spotting.

Flexiclean HWCC

Ultra low VOC, fully formulated, lemon fragranced detergent concentrate that readily dissolves in water to create concentrated or ready-to-use hardwood floor cleaners with no tacky residue. Safe for use on all wood surfaces.

Flexishine CP-100

Water dilutable, concentrated, aqueous, surfactant and fine oil emulsion used to create a one step cleaner/polish/protector for stainless steel appliances. Dries quickly and imparts a self healing, durable finish that eliminates finger prints within minutes. Effective on most nonporous, hard surfaces.

Flexisperse 225

Extremely effective, anionic, aqueous polymer dispersant, rheology modifier, and defloculant. Effectively suspends many types of solids (soils, particulates, pigments, carbon black, Iron Oxide, Kaolin, abrasives, and fillers). Provides long-term stable suspensions over a range of solid levels that readily and easily redisperse once they finally settle (especially important for high solids emulsions and dispersions). Provides anti-redeposition and prevents scale and hard water build-up. Ideal additive to cleaning formulations to disperse particulate matter and keep it from re-depositing to cleaned surfaces. This product should be considered as a builder in all alkaline cleaners because of its dispersant properties that will not only improve cleaning and anti-soil redeposition, but will also allow the elimination or reduction of chelants and phosphates.

Flexisurf LO-30

30% active, lauryl dimethyl amine oxide used to enhance/stabilize foam, build viscosity, provide wetting, and boost the detergency of water-based cleaning formulations. Stable in acid, alkaline, bleach, and peroxide. Compatible with anionic, nonionic, and cationic materials. Low irritancy makes it suitable for personal care products. An excellent surfactant for use in non-streak window cleaners.

Flexisurf LRS

Powerful and concentrated detergent system used to produce non-flammable, DOT non-regulated, fast drying, low VOC or even VOC-free, streak-free glass and surface cleaners. Readily dissolves in water to produce concentrated or ready-to-use products. Provides an economical alternative to costly alcohols and glycol ethers and eliminates concerns of indoor air quality or global warming potential posed by these volatile ingredients. This product is especially useful to formulate highly dilutable glass and hard surface cleaners.

Flexipel SR-80

Anionic, aqueous solution polymer used as an additive in hard surface cleaners to enhance cleaning and leave behind a durable soil barrier that resists multiple insults of hard water, soap scum and oily particulate soils. Imparts a monomolecular layer on the surface making it self cleaning and easy to clean. Formulations using Flexipel SR-80 require the addition of surfactant(s) for optimal polymer surface binding.

Flexipel SR-95HF

Anionic, aqueous solution polymer with built-in detergent and wetting character used as an additive in hard surface cleaners to enhance cleaning and leave behind a durable soil barrier that resists multiple insults of hard water, soap scum and oily particulate soils. Imparts a monomolecular layer on the surface making it self cleaning and easy to clean. Ideal choice for Daily/Weekly Shower cleaners. In many cases, formulations using Flexipel SR-95HF do not require additional surfactants to facilitate cleaning and polymer surface binding.

Flexiwet WBD

Environmentally friendly, VOC Free, nonionic surfactant that provides powerful wetting and detergent properties in hard surface cleaner formulations. Provides rapid dynamic surface tension and penetration of oily and particulate soils. Can be formulated with Flexipel PAF-30 to create a ready-to-use, rejuvenating stone cleaner that removes soils while maintaining/enhancing stain and soil (water/oil) repellency. This product when combined properly with Flexipel PAF-30 will provide a cleaner/protector that will protect valuable stone surfaces forever.

Additional Specialty Products Designed For Hard Surfaces

Flexipel CR-515

Low VOC, environmentally friendly, water dilutable, aqueous solution that provides a durable release coating on many types of materials including steel, wood, aluminum, concrete, fiberglass and paperboard forms. Once treated, concrete forms may be used repeatedly before reapplication is necessary. Tools and equipment may be treated to make them easy to clean.

Flexisperse CA-47

Functionalized polymer used as an additive to enhance the strength of and impart water repellency to concrete, mortar, and lightweight aggregates. This product forms a flexible and resilient film.

Flexisperse CW-40

A removable, polymeric, clear and colorless, barrier coating that withstands the extremes of moisture and temperature and protects treated surfaces from many corrosive elements normally found in nature, and abrasive impacts from particulate matter. Treated materials are protected from weathering effects including salt water and acid rain. The coating is readily removed/dissolved with Flexiclean CWR detergent/cleaner. This product makes an excellent removable automobile coating which is applied by the manufacturer and removed by the dealership prior to sale. The film formed by this product is very hard which makes it a great protective barrier for many surfaces. It is an excellent choice to improve the hardness and toughness of floor finishes (especially useful in low Zinc compositions).

Flexiclean CWR

A powerful alkaline detergent specifically designed to ease the removal of Flexisperse CW-40 from coated surfaces. However, this product is an excellent building block for many user-friendly alkaline cleaners.

Soft Surface Products

ICT designs raw materials for soft surface cleaning that are optimized to provide powerful cleaning properties without rapid resoiling and will impart anti-soiling properties to cleaned surfaces. ICT's dispersant polymer technologies are self encapsulating and leave behind residues that actually enhance the stain and soil resistance of cleaned surfaces. Additionally, these products enhance cleaning by providing detergency and anti-redeposition to the cleaning formulation.

For soft surface protection, ICT offers a wide range of water, water/co-solvent, and solvent soluble or dispersible fluorinated resins used to protect soft surfaces from oil, alcohol and water based stains and soils (i.e. cooking oils, body oils, wine, foodstuffs, Kool Aid®). Unlike silicone resins that provide protection from only water-based stains and impart a gloss that alters the appearance of the treated surface, ICT's fluorinated resins provide a broad spectrum of repellency (oil, alcohol and water) and dry to an invisible barrier with no sheen or gloss, maintaining the original appearance and feel of the treated surface. Silicone oils tend to attract oily soils and dry soils that can cause rapid resoiling making them a poor choice for most soft surface protectors and sealers. ICT fluorinated resins will repel oily soils and dry soils making them ideal for anti-resoiling, oil repellent soft surface protection products. End use formulations are suitable for multiple markets including commercial, retail, and industrial applications.

ICT offers cleaning, conditioning and protection products (surface modifiers) for all types of soft surfaces including apparel, upholstery, carpet, leather and paper products.

Carpet/Rug/Apparel/Upholstery Products

Flexiclean CC-307

Functionalized, dispersant polymer that is combined with builders, co-solvents and/or chelates to produce water-based, non-tacky, encapsulating carpet and upholstery cleaners. End-use products impart anti-soiling and stain resist properties to cleaned surfaces. Spotters, traffic lane cleaners, spin bonnet, low moisture and extraction cleaners are all readily formulated from this product. Formulations are readily certifiable via the Carpet and Rug Institute's Seal of Approval program.

Flexiclean CC-560G

Functionalized, "green system", dispersant polymer that is combined with builders, co-solvents, and/or chelates to produce water-based, anti-resoiling, encapsulating carpet and upholstery cleaners. Provides powerful cleaning properties without the negative resoiling effects typically associated with highly effective detergents/surfactants. End-use formulations can be designed to contain no VOC content. Designed to be formulated in alkaline environments. Flexiclean CC-560G has been incorporated as a key ingredient in formulations that have been certified via third party programs like Green Seal GS-37 and EPA Design for the Environment. Formulations are readily certifiable via the Carpet and Rug Institute's Seal of Approval program.

Flexiclean CC-630

Peroxide stable, functionalized dispersant polymer that is used to produce water-based, anti-resoiling, encapsulating carpet and upholstery cleaners with enhanced stain resist. Ideal choice for use in peroxide based Pet Stain formulations.

Flexiclean W-5 Concentrate

Functionalized, dispersant polymer system that is combined with co-solvents to produce cost effective spot cleaners specially designed for pre-moistened wipe applications. Provides powerful cleaning properties and imparts soiling and stain resistance to cleaned surfaces. Formulations are readily certifiable via the Carpet and Rug Institute's Seal of Approval program.

Flexiclean RTD-3

Fully formulated cleaning concentrate (manufactured from Flexiclean CC-307 and Flexiwet NF) that readily dissolves in water to produce encapsulating carpet and upholstery cleaners. Formulations are readily certifiable via the Carpet and Rug Institute's Seal of Approval program.

Flexiclean LSCN

Powerful and concentrated detergent system (enzymes and anti-redeposition polymer included) that readily dissolves in water to produce ready-to-use laundry spot and stain removers that have excellent anti-soil redeposition properties. End-use formulations provide excellent removal of various soils including grass stains, foodstuffs, blood, greases and motor oil with comparable performance to national brands.

Flexiguard FR-42

Water soluble, concentrated flame retardant. When applied properly, end-use formulations provide excellent flame protection for draperies, upholstery, mattress ticking, and apparel. This product also provides excellent flame resistance for paper and wood products including wall board and other housing materials. In addition, excellent antistatic properties are imparted with as little as 0.25% on weight of fabric because Flexiguard FR-42 is a very effective, anionic antistat.

Flexipel AM-95

Water-based, ambient cure, soil and stain (oil/water) repellent used to create fabric protectors that are applied to soft surfaces including apparel, upholstery, and exterior fabrics. Readily disperses in water to produce concentrated or ready-to-use, soft-hand protectors.

Flexipel AM-98

Water-based, ambient cure soil and stain (oil/water) repellent used to create protectors that are applied to suedes, nubucks, and a variety of other fabrics, including carpet, upholstery and apparel. Readily disperses in water to produce concentrated or ready-to-use protectors.

Flexipel AM-101

Water-based, ambient cure soil and stain (oil/water) repellent used to create protectors that are applied to soft surfaces, particularly cotton and cotton blends when soil release properties are needed (especially useful for professional apparel). Readily disperses in water, alcohols, and/or glycol ethers to produce concentrated or ready-to-use protectors.

Flexipel AM-900

Water-based, ambient cure soil and stain (oil/water) repellent used to create protectors primarily for carpet, but that are effective on upholstery also. Enhances cleanability, retards soiling, and provides soil release on treated surfaces. Readily disperses in water to produce concentrated or ready-to-use protectors.

Flexisperse FTA-2

Freeze/thaw additive that can be used to make freeze/thaw stable dilutions of Flexipel Am-900 (even ready to use dilutions). Also useful to make freeze/thaw stable concentrates of combinations of Flexipel AM-900 with stain resist Flexisperse AM-210.

Note: Flexipel AM-900 is freeze/thaw stable between 60% and 100% concentration, but requires Flexisperse FTA-2 addition for freeze/thaw stability below 60%.

Flexipel DWR-50

Water-based, low temperature cure, soil and stain (oil/water) repellent used to create protectors for apparel and other fabrics that can be dried in a hot clothes drier. Readily disperses in water to produce concentrated and ready-to-use, soft-hand protectors. Ideal for use as an ironing aid, or applied prior to the drying step, to impart oil/water repellency to treated surfaces. This product requires some heat during drying to become repellent. This product stratifies on long term storage, but is easily restored with gentle mixing.

Flexipel S-11WS

Solvent-based, ambient cure, soil and stain (oil/water) repellent used to create protectors that are applied to virtually all soft surfaces including apparel, upholstery, and exterior fabrics (excellent choice for protecting leather of all types). Readily dissolves in non-polar, hydrocarbon solvents to produce concentrated or ready-to-use protectors.

Flexisorb OD-202

Concentrated zinc salt that readily micro-emulsifies in water to produce concentrated or ready-to use odor counteractants (a true odor absorber, not an odor mask). Chemically alters volatile odors rendering them undetectable i.e., non-volatile so that they do not reach the olfactory nerve and therefore cannot be smelled. Effectively neutralizes smelly short chain carboxylic acids, mercaptans, thioethers and amines (including hydrogen sulfide and ammonia). Since it does not interact with esters and aldehydes, it is compatible with most fragrance oils. Requires no pH adjustment to produce a clear micro-emulsion upon dilution. A 5% dilution of Flexisorb OD-202 has a nearly neutral pH. Self encapsulating, this product eliminates tacky residues that attract soil. Ideal for carpet and upholstery applications.

Flexisperse AM-210

Anionic aqueous polymer that provides stain blocking and soil resistance to soft surface cleaners and protectors. Extremely efficient at low use levels. Can be formulated into oil/water repellents like Flexipel AM-900 to enhance stain and soil resistance. Formulates readily with cleaning products to enhance the stain resistance of cleaned surfaces. Alternatively, this product can be used as a stand alone, non-fluorinated soil and stain protector for carpet.

Flexisperse 220

Acid polymer for use in carpet care products that functions as a dispersant and builder as well as maintaining/enhancing stain resistance. Aids in reducing scale buildup in carpet cleaning equipment. Peroxide stable and compatible with most surfactants and dispersant polymers. Ideal to produce a stand-alone acid rinse that is non-hydroscopic and reduces wick-back/yellowing while neutralizing residual alkalinity. Unlike common acids used as acid rinses, this product enhances soil and stain resistance while other acids (such as acetic, glycolic, sulfuric, citric and phosphoric) decrease or eliminate this built in feature of OEM carpets.

Flexisperse 305

Anionic, encapsulating, dispersant polymer (sodium salt) that dries to a hard brittle film enhancing the dry soil resistance and stain resistance of carpet care products.

Flexisperse 318

Anionic, encapsulating, dispersant polymer (ammonium salt) that dries to a hard brittle film enhancing the dry soil resistance and stain resistance of carpet care products. Provides a friable film.

Flexisperse PM-25

Anionic, emulsion polymer used to provide hardness (dry soil resistance) to carpet care formulations. Particularly useful in soft surface protectors to increase dry soil resistance.

Flexistat WR-152

Water-based wrinkle release concentrate with antistatic and soft hand properties. Readily dissolves in water to produce cost effective, end-use wrinkle release products. Low odor and safe for virtually all fabrics. Contains no silicones and leaves treated fabrics with added softness. Can be applied before or after drying. This product is an excellent choice as an ironing aid, fabric softener and/or antistat for the dryer or as an ironing substitute.

Flexistop AF-333

Extremely efficient, water-soluble, non-silicone defoaming agent. Effective over a wide pH (2-12). Compatible with anionic and nonionic materials. Ideal for use in carpet extraction cleaners to provide rapid defoaming with no negative impact on resoiling.

Flexiwet NF

A 7% active, unique, anionic, fluorinated surfactant with defoaming capability as well as exceptional wetting properties and excellent chemical/thermal stability. It is an excellent wetting agent for carpet and upholstery cleaners. The use of this product in a carpet and upholstery cleaner will enhance soil resistance.

Leather Products

Flexiclean LC-200

Concentrated detergent complex that readily dissolves in water to produce water-based leather cleaners. pH balanced so that end-use products are safe for all leather surfaces including nubucks and suedes. Can be used for spray on, wipe on, foaming or moussable cleaning agents.

Flexicon LC-65

Concentrated creamy emulsion that readily dilutes in water to create a cost effective leather cleaner and conditioner. Contains an optimized blend of natural oils and mild detergents that penetrate, soften, lubricate, and condition leather surfaces. Minimizes scratches and abrasions restoring original appearance and leaves leather feeling soft and supple.

Flexipel AM-98

Water-based, ambient cure, soil and stain (oil/water) repellent used to create protectors for nubuck and suede leathers. Readily disperses in water to produce concentrated or ready-to-use, low VOC protectors.

Flexipel AM-99

Water-based, ambient cure, soil and stain (oil/water) repellent used to create protectors that are applied to soft surfaces including hard to wet leather surfaces typically found on finished and OEM treated leathers. Readily disperses in water to produce concentrated or ready-to-use, low VOC products. Not for use on nubucks and suedes.

Flexipel LPC-306

A ready-to-use, aqueous, creamy and rich emulsion that provides soil and stain (oil/water) repellency for leather surfaces without leaving an artificial sheen. Easy to apply, simply wipe into leather and wipe off excess.

Flexipel S-11WS

Solvent-based, ambient cure, soil and stain (oil/water) repellent used to create protectors that are safe for application to virtually all leather surfaces including nubucks and suedes. Readily dissolves in non-polar hydrocarbon solvents to produce concentrated or ready-to-use protectors.



Specialty Products

Odor Absorbers/Eliminators

Flexisorb OD-300

Concentrated and easy to formulate zinc salt that readily micro-emulsifies in water to produce concentrated or ready-to-use odor counteractants (a true odor absorber, not an odor mask). Chemically alters volatile odors rendering them undetectable i.e., non-volatile so that they do not reach the olfactory nerve and therefore cannot be smelled. Effectively neutralizes smelly short chain carboxylic acids, mercaptans, thioethers and amines (including hydrogen sulfide and ammonia). Since it does not interact with esters and aldehydes, it is compatible with most fragrance oils. Requires formulation with chelate to produce a clear emulsion upon dilution. This product is formulated with cosmetic grade products and is ideal for hand and body washes, wipes, pet shampoos and virtually any application with the exception of carpet and upholstery where Flexisorb OD-202 is recommended because of its soil retarding ability.

Flexisorb OD-101

An alkaline version of Flexisorb OD-300 that is infinitely dilutable without special formulation and designed for use as an additive to alkaline cleaning systems.

Flexisorb OD-102

A nearly neutral version of Flexisorb OD-300 that is infinitely dilutable without special formulation and designed for easy formulation for products that need to be nearly neutral or slightly acidic (matching the pH of skin). An excellent choice for concentrates that are intended to be diluted on site.

Flexisorb OD-202

A nearly neutral version of Flexisorb OD-300 that is infinitely dilutable without special formulation and designed for easy formulation for products that need to be nearly neutral or slightly acidic (matching the pH of skin). This product is formulated with soil and stain resist agents that prevent sticky and tacky residues that attract soil. It is ideal for formulating odor absorbers or cleaners that will be used on carpet and upholstery. An excellent choice for concentrates that are intended to be diluted on site.

UV Absorbers

Flexisorb AQ-50

Anionic, concentrated solution of a benzotriazole type ultraviolet light absorber that readily disperses in water producing a clear, stable micro-emulsion. Ultra small particles provide uniform and efficient coverage on treated surfaces. Ideal for use in aqueous paints and coatings to extend longevity, appearance, and coating life.

Flexisorb S-50WS

Hydrocarbon solution of a benzotriazole type ultraviolet light absorber that dissolves in non-polar solvent and solvent mixtures. Ideal for use in solvent-based paints and coatings to extend longevity, appearance, and coating life.

Wetting Agents/Dispersants

Flexisperse CQ-1000 IPA

A fully quaternized, aqueous solution copolymer of styrene and an amino functional imide in a water/ipa solvent mixture. It is fully water soluble although it has significant hydrophobic modification and as such is surface active. It is compatible with cationic and nonionic systems. It is useful as a dispersant and stabilizer in cationic emulsions such as wax emulsions and in emulsion polymerizations. It is also useful in paper manufacturing as a surface size, retention aid and in dewatering the pulp. Additionally, this product is useful as a dispersant in pressure treating lumber with ammoniated copper salts. The dried residue is very hard and brittle and can be useful as an anti-soiling additive to cationic/nonionic hard and soft surface cleaners and protectors.

Flexisperse 225

Extremely effective, anionic, aqueous polymer dispersant, rheology modifier and defloculant. Effectively suspends many types of solids (soils, particulates, pigments, Iron oxide, Kaolin, carbon black, abrasives, and fillers). Provides long-term stable suspensions over a range of solid levels that readily and easily redisperse once they finally settle (especially important for high solids emulsions and dispersions). Provides anti-redeposition properties and prevents scale and hard water build-up. Ideal additive to cleaning formulations to disperse particulate matter and keep it from re-depositing on cleaned surfaces. This product should be considered as a builder in all alkaline cleaners, liquid laundry detergents, auto-dish wash and rinse aids, and clean in place food and beverage cleaners because of its dispersant properties that will not only improve cleaning and anti-soil redeposition, but will also allow the elimination or reduction of chelants and phosphates. Bleach and peroxide stable.

Flexisperse 300

Partially neutralized, low molecular weight, polyacrylic acid scale inhibitor and dispersant. This polymer is widely used by the water treatment industry to control the development of and inhibit the precipitation of CaCO₃, CaSO₄, and other low solubility mineral salts on heat exchange surfaces of cooling towers and boilers. In oilfield applications, the polymer prevents scale development in well formations and production equipment. Flexisperse 300 is also used as a dispersant and defloculating agent for low temperature, low electrolyte drilling muds.

Flexisperse 300N

Fully neutralized, sodium salt of Flexisperse 300 optimized to effectively disperse mineral pigments including kaolin clay, calcium carbonate, titanium dioxide, and other mineral slurries. This polymer finds use in both the mining and processing of mineral pigments and also allows shipment of high solids slurries that remain stable for extended periods of time.

Flexisperse 450

Partially neutralized, polyacrylic acid dispersant used widely as a co-builder in detergent and cleaning formulations. As a co-builder, the polymer serves as a sequesterant, crystal modifier, and dispersant that enhances the efficiency and detergency of surfactants in the cleaning process. This polymer is widely used by Household, Industrial and Institutional (HI&I) formulators to manufacture liquid laundry, warewash and hard surface cleaning products. In addition, the polymer molecular weight has been optimized to enhance spray dry processing of higher solids slurries.

Flexisperse 450N

Fully neutralized, sodium salt of Flexisperse 450 is a “ready to use”, phosphate free, bleach stable, co-builder for detergent and cleaning formulations. As a co-builder, the polymer serves as a sequesterant, crystal modifier, and dispersant that allows the surfactant to work more efficiently in the cleaning process. This polymer is an excellent ingredient choice for use in liquid laundry, laundry additives, medium to highly alkaline cleaners, and ware wash formulations (both chlorine and non-chlorine).

Flexisurf LO-30

30% active lauryl dimethyl amine oxide used to enhance/stabilize foam, build viscosity, provide wetting, and boost the detergency of water-based cleaning formulations. Stable in acid, alkaline, bleach, and peroxide. Compatible with anionic, nonionic, and cationic materials. Low irritancy makes it suitable for personal care products. An excellent surfactant for use in non-streak window cleaners.

Flexiwet NR-50

Powerful wetting agent with exceptional wetting of difficult to wet surfaces. Completely nonionic system with excellent oil and grease emulsification and minimal rewetting. Surface tension of 26 – 28 dynes/cm can be achieved with 0.10 – 0.25% on weight of formulation.

Flexiwet NRW

Powerful, non-rewetting, wetting agent with exceptional wetting of difficult to wet surfaces including polyolefin and silicon contaminated fabrics. Optimized for use with fluorochemical oil/water repellants. Improves the performance of finishing agents including optical brighteners, fluorochemicals, and UV absorbers. Surface tension of 26 – 28 dynes/cm can be achieved with 0.1 – 0.25% on weight of formulation.

Additional Specialty Products

Flexiclean SS-100

Concentrated aqueous aminofunctional polysiloxane emulsion used to impart high gloss to vinyl, rubber and other surfaces. Ideal for use in tire and vinyl dressings, cleaners and conditioners. Formulates easily to create shoe clean and shine touch up products. An excellent additive for automotive polishes, furniture polishes and floor care mop and shine products.

Flexipel Q-50

An aqueous, water stable, reactive silane that readily dissolves in water to produce durable surface modification products. This product imparts antistatic properties, lubricity, water repellency and softness to most substrates. Imparts a durable coating that creates a repellent surface that will resist staining and odors. Can be used to manufacture glass and other hard surface protectors and cleaners that create a surface with greatly reduced coefficient of friction to reduce propensity of the surface to scratch while hiding scratches and imperfections (this makes glass and mirrors appear more brilliant by reducing refraction). When used in automotive windshield glass protectors or cleaning solutions, the glass will bead water and the water drops will skate off the windshield while driving for greatly enhanced visibility.

Flexipel Q-1000

A concentrated polar solvent-based, reactive silane that dissolves in water and solvents including alcohols, glycols, glycol ethers and other polar solvents to produce a range of surface modification products. Water dilutions have limited shelf life on the order of 4 – 8 hours. Provides a more economical alternative to Flexipel Q-50 in situations that do not require long term dilution and stability in aqueous media or when the final product can be solvent based.

Flexisorb AN-557

Concentrated, low corrosion (so low that the product can be shipped DOT non-regulated) sulfuric acid replacement product that is much safer to use than sulfuric acid because it has very low corrosivity, no heat of dilution and is non-fuming. This product may also be used to replace sulfamic acid, glycolic acid, acetic acid, citric acid and others in many uses.

Flexisperse AT-7

Ultra high molecular weight anionic polymer used to thicken alkaline media. Pourable liquid that is easy to use and is bleach and peroxide stable. Thickened products are non-thixotropic. This product thickened with base will provide a lubricant while wet that won't slip once it dries.

Flexisperse CQ-20

Partially quaternized, acrylic, aqueous, solution polymer that dries to a brittle film. It is compatible with cationic and nonionic systems and is useful as a dispersant and stabilizer in cationic systems. The dried residue is very hard, brittle, and not hygroscopic making it useful as an anti-soiling additive to cationic/nonionic hard and soft surface cleaners and protector.

Flexisperse HQ-25

Fully quaternized, acrylic, aqueous, solution homopolymer. It has twice the cationic charge density compared to Flexisperse CQ-20. It is compatible with cationic and nonionic systems. It is useful as a dispersant and stabilizer in cationic systems. The oven dried residue is very hard and brittle, but due to its hygroscopicity, will form a tacky film under high humidity conditions.

Flexistop AF-333

Extremely efficient, water-soluble, non-silicone defoaming agent. Effective over a wide pH (2-12). Compatible with anionic, cationic and nonionic materials. Ideal for use in carpet extraction cleaners to provide rapid defoaming with no negative impact on resoiling.

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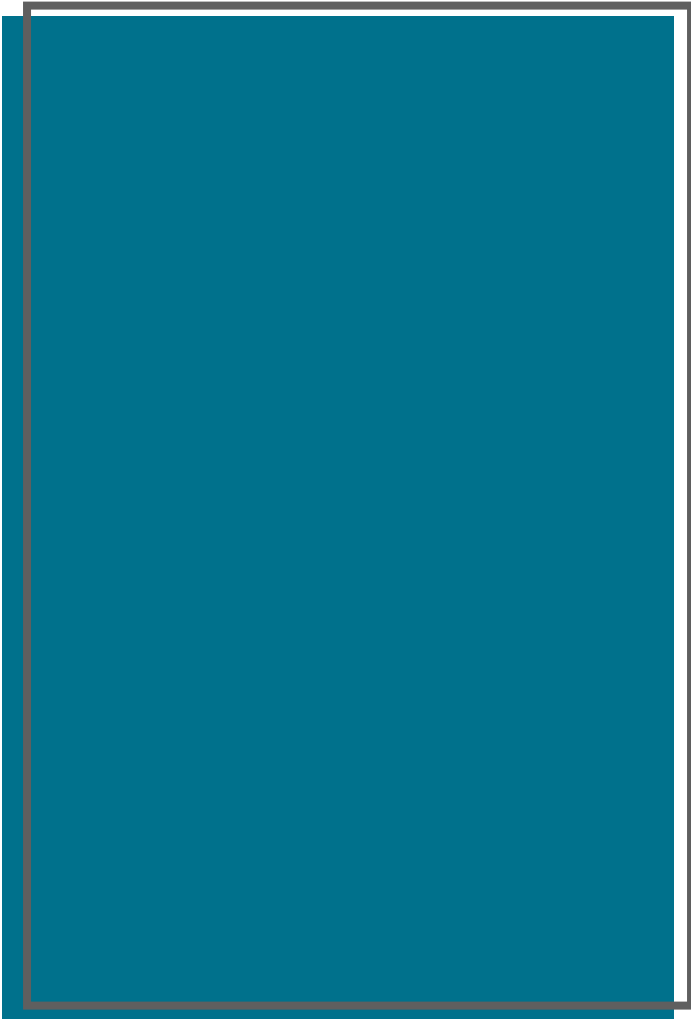
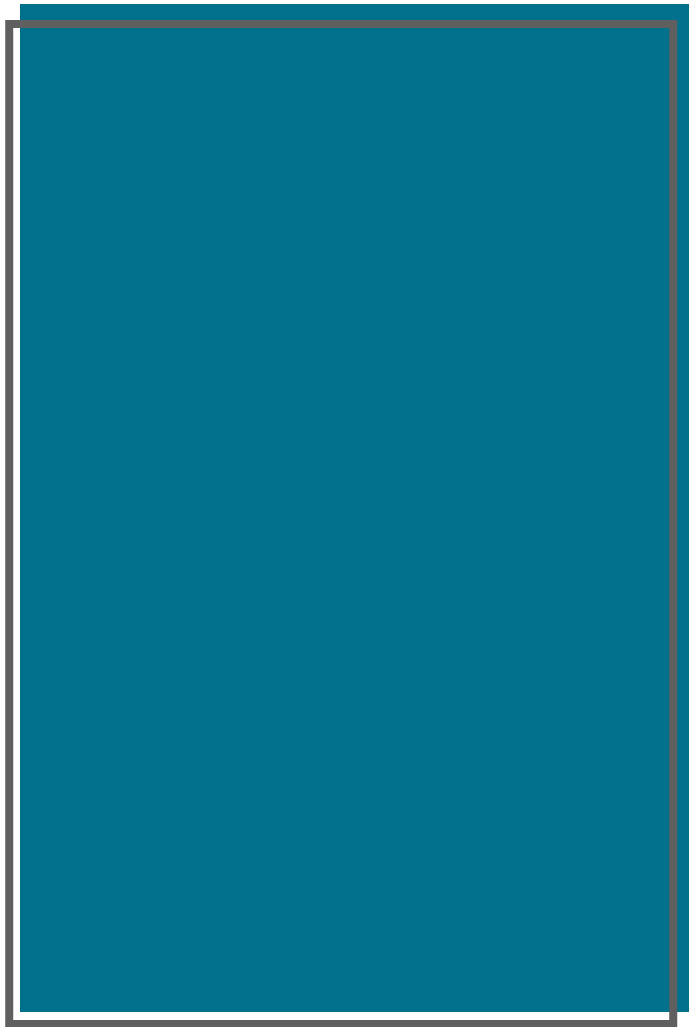
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