BRB Siloen® Range for Masonry Protection and Decorative Paints

Product Name/Type	Active	Application/Main Features
BRB Siloen® WRE WB Emulsion	50%	**Water repellent for porous mineral substrates** ●●●● *Sandstone, Sandstone/Limestone, Cement, Terracotta* ●●● *Concrete, Reinforced concrete* ●● *Limestone* – *Marble* **In-plant water repellent impregnation of** ●●●● *Fiber-reinforced cement, Areated concrete, Mineral fiber, Lightweight aggregates, Fired clay/Terracotta* ●● *Sand lime bricks* **Water repellent primer for subsequent coating of decorative top coats** *✧ Alkali stable ✧ High penetration for long lasting protection ✧ Good beading ✧ Stable when diluted with tap water*
BRB Siloen® WRC8 Tixotropic Cream	80%	**Water repellent impregnation of dense building materials** ●●●● *Concrete, Reinforced concrete* **Recommended for bridge tunnels, motorways and any overhead application** *✧ Alkali resistant ✧ Very high penetration because of long contact time due to its paste consistency ✧ Reduces absorption of water and water disperse pollutants (e.g. chloride)*
BRB Siloen® WRC4 Tixotropic Cream	40%	**Water repellent for mineral porous substrates** ●●●● *Sandstone, Sandstone/Limestone, Cement, Terracotta* ●●● *Concrete* **Water repellent for damp proof chemical barrier** *✧ Alkali stable ✧ Good beading ✧ Easy diffuse into the wall, do not need high humidity vs higher solids creams (damp proof)*
BRB Siloen® WRP Fine Powder	20%	**Dry mix water repellent additive for cement-based mortars and renders** *✧ Alkali stable ✧ Good compatibility with other additives ✧ Disperse easily in water ✧ No impact on rheology ✧ Non toxic* *✧ UNI EN 480-5 compliance (water absorbency reduction in cementitious mortar)*
BRB Siloen® SR 349 Water Solution	54%	**Potassium Methyl Siliconate solution to impart water repellency to gypsum and gypsum fiberboard, areated concrete, perlite, vermiculite, in-plant impregnation of terracotta tiles, bricks, flower pots** **Wall injection (damp proof chemical barriers)**
BRB Siloen® SR 608 Silane/Siloxane concentrate	100%	**Solvent dilutable silane/siloxane blend masonry water repellent** *✧ Alkali stable ✧ High penetration for long lasting protection ✧ Good water repellency ✧ Easily dilutable ✧ Very effective on highly porous carbonatic material (limestone)*
BRB Siloen® 694 Alkyl Silane	100%	**Water repellent impregnating formulation for building materials like cement and concrete** *✧ High penetration ✧ No impact on surface aspect ✧ Alkali resistant ✧ Effective on fresh concrete*

BRB Siloen® Range for Masonry Protection and Decorative Paints (cont.)

Product Name/Type	Active	Application/Main Features
BRB Siloen® SR 403 Reactive PDMS Emulsion	60%	**Water repellent additive for silicone based paints, plaster and renders** **Admixture for cement based mortars with improved water resistance and beading**
BRB Siloen® HPA 406 Modified Siloxane Resin Emulsion	55%	**High performance water repellent beading effect additive with minimal dirt pick up suitable for silicone, silicate, water based dispersions and masonry paints** **Water repellent primer for subsequent coating of decorative top coats** **Hydrophobing agent for insulating materials**

●●●● **Ideal** ●●● **Good** ●● **Possible** - **Not suitable**

BRB Siloen® Resins Range for Heat Resistant Paints

Product Name/Type	Active	Application/Main Features
BRB Siloen® SR 379 Methyl Silicone Resin in xylene-butanol	50%	**Binder for heat resistant paints** **Binder for anti corrosion Paints** *✧ Fast tack-free drying time in bundle with good film hardness ✧ Higher hardness after baking ✧ Suitable for high temperature resistant paint (up to 600°C with aluminium pigment) ✧ Good corrosion protection when combined with zinc-rich primers ✧ Medium viscosity*
BRB Siloen® SR 379N Methyl Silicone Resin in xylene	50%	**Binder for heat resistant paints** **Binder for anti corrosion paints** *✧ Slower air drying rate and lower air drying hardness vs SR 379 ✧ High hardness after baking ✧ Suitable for high temperature resistant paint (up to 600°C with aluminium pigment) ✧ Good corrosion protection when combined with zinc-rich primers ✧ Low viscosity*
BRB Siloen® SR 383 Methyl Phenyl Silicone Resin in xylene	50%	**Binder for heat resistant paints** **Binder for anti-corrosion paints** *✧ Medium hardness methyl phenyl silicone resin ✧ Tack free drying at room temeprature ✧ Acceptable hardness prior to baking ✧ Suitable for high temperature resistant paint (up to 650°C with aluminium pigment) ✧ Better flexibility compared to Methyl Silicone Resin paints ✧ Good adhesion to metal substrate ✧ Compatible with organic binder ✧ Need to be baked at 250°C to achieve maximum performance including resistance to chemicals*
BRB Siloen® SR 313 Methyl Phenyl Silicone Resin in xylene	80%	**Binder for heat resistant paints** **Binder for anti corrosion paints** *✧ Similar properties as BRB Siloen® SR 383 but recommended to formulate high solids low VOC paint*

BRB Siloen® Resins Range for Heat Resistant Paints (cont.)

Product Name/Type	Active	Application/Main Features
BRB Siloen® SR 833 Alkoxy Methyl Silicone Oligomer	100%	**Binder for room temperature moisture curing heat resistant paints** **Organic resin modifier** *As binder:-* *✧ Solvent free ✧- Room temperature curing by reacting with atmospheric moisture (requires a catalyst/curing agent) ✧ High hardness at ambient and hot temperature (do no soften at high temperature) ✧ Also suitable for very high temperature application (up to 650°C)* *As resin modifier:-* *✧ Compatible with organic resin ✧ Low volatile content ✧ More effective than monomers due to its higher amount of reactive sites*
BRB Siloen® SR 385 FD Methyl Phenyl Silicone Resin in xylene	50%	**Binder for non-stick coatings material in contact with foodstuff; non-sticking bakery pans for bread, rusks, biscuits, cakes, etc.** *✧ Very good balance between hardness (medium) and flexibility ✧ Good release performances ✧ Can be used in compliance with BfR recommendation XV Silicones and FDA Regulation 21 CFR 175.300 chapter (b) (3) (xxviii)*

BRB Siloen® Paint Additives Range

Product Name/ Description	Active	Application/Features/Suitable Thinners	Binders Compatibility/Typical Dosage & Point of addition
BRB Siloen® WA 260 Low Viscosity Silicone Polyether	100%	**Improve wetting on difficult substrates** *✧ Water based flexo- inks for PE, PP and PET film ✧ Very effective in neutral pH (6 to 8)* Thinnable with Isopropyl Alcohol, Acetone, Water	**Waterborne Acrylate, Alkyd, Polyurethane, Polyester** 0,2 to 1% let-down stage or post addition
BRB Siloen® WA 261 Modified Trisiloxane	100%	**Excellent surface tension depressant** *✧ Helps flow and levelling ✧ No or very low foam stabilisation* Thinnable with Isopropyl Alcohol, Acetone, Water	**Waterborne, Solventborne and UV/EB coatings** 0,1 to 0,5% let-down stage or post addition
BRB Siloen® WA 262 Silicone Polyether	100%	**Excellent wetting and levelling on difficult substrates (PE, PP, PET)** *✧ For waterbased coating ✧ No foam stabilisation ✧ Suitable only for use in neutral pH* Thinnable with Isopropyl Alcohol, Acetone, Water	**Waterborne Acrylate, Alkyd, Polyurethane, Polyester** 0,2 to 1,5% let-down stage or post addition

BRB Siloen® Paint Additives Range (cont.)

Product Name/ Description	Active	Application/Features/Suitable Thinners	Binders Compatibility/Typical Dosage & Point of addition
BRB Siloen® WA 263 Silicone Polyether Copolymer solution	50% in DPGME	**Waterborne coating** ✧ *Reduce surface tension, improving wetting and levelling* ✧ *pH stable (4 to 10)* ✧ *Do not reduce slip* ✧ *Recoatable* Dilutable with Water	**Waterborne Acrylate, Alkyd, Polyurethane, Polyester** 0,2 to 2,0% post addition or let-down stage
BRB Siloen® WA 264 Silicone Polyether Copolymer	100%	**Waterborne coating that do not contain co-solvent** ✧ *Improves wetting and levelling* ✧ *pH stable (4 to 10)* ✧ *Do not reduce slip* ✧ *Recoatable* Dilutable with Water	**Waterborne Acrylate, Alkyd, Polyurethane, Polyester** 0,05 to 1,0% post addition or let-down stage
BRB Siloen® LA 271 Glycol Modified Siloxane	100%	**For solvent, EB/UV and waterborne coatings** ✧ *Improves levelling, slip, mar resistance, anti-blocking* ✧ *Enhances gloss* Dilutable with Isopropyl Alcohol, Acetone, White Spirit and dispersible in water	**Acrylic, Epoxy, Vinyl, Alkyd, Amide, Polyester, Polyurethane, Nitrocellulose** 0,05 to 1% let-down stage or post addition Complies to EU Directive 10/2011 Annex I, table 1, Ref. no: 80640 BfR XV. Silicones: part I
BRB Siloen® SMA 280 Polyether modified siloxane solution	50% in DPGME (1)	**Provides strong slip, smoothness and scratch resistance** ✧ *pH stable (4 to 10)* ✧ *Defoaming properties* Dilutable with Alcohols, Glycol ethers and dispersible in water	**Waterborne, Solventborne, radiation curable printing inks and overprint varnishes** 0,1 to 1% let-down stage
BRB Siloen® SMA 283 Polyether modified siloxane	100%	**Provides slip and smoothness** ✧ *Helps flow, levelling and anti-crater* ✧ *Recoatable* Dilutable with Alcohols, Glycol ethers	**Solventborne, Waterborne and UV/EB coatings** 0,05 to 1,0% let-down stage or post addition
BRB Siloen® SMA 284 Ultrahigh MW Polysiloxane dispersion	80% in water	**Waterborne and Solventborne coatings** ✧ *Imparts mar resistance, slip and release* ✧ *Reduces CoF* Dilutable with Water, Polar Solvent	**Acrylic, Alkyd, Epoxy, Polyester, Polyurethane, Vinyl** 0,05 to 3,0% post addition or let-down stage High viscosity product: pre-dilution is recommended to get homogeneous dispersion into the coating
BRB Siloen® SMA 285 High MW Silicone Urethane Resin Emulsion	30% in water	**Waterborne Coating** ✧ *Improve water repellency and soil resistance* ✧ *Provide slip, mar as well as smoothness* Dilutable with Water	**Waterborne coatings, fabric finishing and hard surface cleaners** 0,5 to 5,0% post addition or let-down stage

BRB Siloen® Paint Additives Range (cont.)

Product Name/ Description	Active	Application/Features/Suitable Thinners	Binders Compatibility/Typical Dosage & Point of addition
BRB Siloen® SMA 286 Crosslinkable Silicone Acrylate Pre-polymer	100%	**Specially designed for UV/EB system Improves slip, scratch, mar resistance as well as release properties** ✧ *Reduce CoF* ✧ *Permanent binding into the matrix preventing migration from the coating* ✧ *Also suitable for polymer modification* Dilutable with Aromatic and Aliphatic solvents and dispersible in Water	CoF Reduction: 0,2 to 1,0% Release: 1,5 to 3,0% post addition or let-down stage
BRB Siloen® DA 290 Fluorosilicone solvent dispersion	0.75% in DIBK (2)	**Defoamers for solventless and solventborne coating** ✧ *Highly effective at low addition* Dilutable with Ketones	**Recommended for PU or Epoxy based plastic systems** 0,1 to 0,7 % let-down stage or post addition
BRB Siloen® TA 394 Ultrahigh MW Polysiloxane dispersion	10% in xylene	**Hammertone finish Designed for solventborne coating** Dilutable with Aromatic and Aliphatic solvents	0,05 to 0,8% let-down stage
BRB Siloen® PDA 222 Alkyl modified siloxane	100%	**Dispersant processing aid alkylsiloxane for surface treatment of inorganics fillers and any pigments used in thermoplastic formulations and solventborne paint and inks** ✧ *Allows higher pigment content* ✧ *Improved water repellency and weatherability* ✧ *Enhanced color strength* ✧ *Higher heat resistance vs organic dispersant, reducing yellowing in high temperature application* ✧ *Improved dispersion stability preventing flooding and floating*	**TiO_2 pigment dispersant** 0,5 to 4,0% depending on pigment quality (higher quality pigment requires lower dosage) Grind stage

(1) Di-Propylene Glycol Methylether (2) Di-Isobutylketone

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