



A Subsidiary of PETRONAS Chemicals Group

The Powerful Shield

Paint & Coatings and Construction

BRB Siloen® Range for Masonry Protection and Decorative Paints

Product Name/Type	Active	Application/Main Features
BRB Siloen® SR 619 Alkylsilane siloxane concentrate	100%	<ul style="list-style-type: none"> • Solvent dilutable silsesquioxane-based impregnating water repellent • TIn Catalyst free <p><i>*Highly effective general purpose for mineral (i.e. Sandstone) and alkaline substrates (concrete)</i> <i>*Easily dilutable in Aliphatic solvent, Isopropylalcohol</i> <i>*Compliant with AASTHO Product Evaluation & Audit Solutions Program</i></p>
BRB Siloen® SR 608 Silane/Siloxane concentrate	100%	<ul style="list-style-type: none"> • Solvent-dilutable silane-siloxane blend-based masonry water repellent <p><i>*Alkali stable *High penetration for long-lasting protection *Good water repellency *Easily dilutable</i> <i>*Very effective on highly porous carbonated construction materials (limestone)</i></p>
BRB Siloen® 694 Alkyl Alkoxy Silane	100%	<p><i>*Suitable for hydrophobic priming as well as water repellent treatment of (reinforced) concrete</i> <i>*High depth of penetration *Alkaline resistance *Strong reduction of water absorption and chloride ions ingress</i> <i>*Compliant with AASTHO Product Evaluation & Audit Solutions Program</i></p>
BRB Siloen® 882 Alkyl Silane Oligomer	>98%	<ul style="list-style-type: none"> • Integral water repellent for cement-based construction material (admixture for fibre-cement boards, autoclaved aerated light concrete) <p><i>*Reduce Capillarity water absorption *Added as supplied into the water-based cementitious slurries (from 0.1 to 0.5% by weight vs total solid weight)</i> <i>(high shear mixing units are required to evenly disperse the hydrophober into the slurry)</i></p>
BRB Siloen® 5022 WR WB Emulsion	50%	<ul style="list-style-type: none"> • Post-treatment Water repellent for porous mineral substrates <ul style="list-style-type: none"> ●●●● Sandstone, Sandstone/Limestone, Cement-based materials, Terracotta ●●●○ Concrete, Reinforced concrete ●●○○ Limestone ----- Marble • Suitable as integral water repellent for pre-cast concrete or as in-plant water repellent impregnation of <ul style="list-style-type: none"> ●●●● Fiber-reinforced cement, Aerated concrete, Mineral fibre, Lightweight aggregates, Fired clay/Terracotta ●●○○ Sand lime bricks • Post-treatment water repellent primer before subsequent coating of decorative topcoats <p><i>*Alkali stable *High penetration for long-lasting protection *Strong and fast beading *Stable when diluted with tap water</i></p>
BRB Siloen® 696 Alkyl Silane emulsion	45%	<ul style="list-style-type: none"> • Silane-siloxane based integral Water repellent for non-load bearing cement-based concrete • impregnating water repellent and priming of alkaline mineral surfaces
BRB Siloen® MXP5 Fine Powder	50%	<ul style="list-style-type: none"> • High-efficiency powdered water repellent additive for cement-based dry mixes <p><i>*Alkali stable *Good compatibility with other additives *No impact on rheology *Non-toxic</i></p>
BRB Siloen® SR 349 Water Solution	54%	<ul style="list-style-type: none"> • Potassium Methyl Siliconate solution to impart water repellence to gypsum and gypsum-based fibreboard, aerated concrete, perlite, vermiculite, in-plant impregnation of terracotta tiles, bricks, flowerpots • Wall injection (damp-proof chemical barriers)
BRB Siloen® WRC4 Thixotropic Cream	40%	<ul style="list-style-type: none"> • Water repellent for mineral porous substrates <ul style="list-style-type: none"> ●●●● Sandstone, Sandstone/Limestone, Cement, Terracotta ●●●○ Concrete • Water repellent for damp-proof chemical barrier <p><i>*Alkali stable *Good beading *Easy application *Diffuse into the wall</i></p>
BRB Siloen® SR 403 Reactive PDMS emulsion	60%	<ul style="list-style-type: none"> • Water repellent additive for silicone-based paints, plaster, and renders
BRB Siloen® HPA 406 Modified Siloxane Resin Emulsion	55%	<ul style="list-style-type: none"> • High-performance water repellent beading additive. Minimal dirt pick-up of coating. Suitable for water-based masonry paints, silicone resin-based paints or silicate-based paints. • Water repellent primer before subsequent coating of decorative topcoats
BRB Siloen® HPA 415 Methyltrisilanetriol Potassium Salt	54%	<p><i>*pH controller additive for water-based dispersion paints *Improve water repellence and wet scrub resistance *Non smelling *VOC free</i></p>

●●●● Ideal ○●●● Good ○○●● Possible ----- Not suitable

BRB Siloen® Resins Range for Heat Resistant Paints

Product Name/Type	Active	Application/Main Features
BRB Siloen® ISR 122 TC Alkoxy Methyl Phenyl Oligomer	≥98%	<ul style="list-style-type: none"> • Binder for heat-resistant paints <p><i>*Methoxy functional, liquid silicone resin *Compatible with organic resins such as alkyds, epoxies or polyesters *Used in combination with organic resins by reaction or cold- blends *Improves weatherability and heat resistance of hybrid coatings. *Silicone intermediate for making hybrid binders for coil coatings, appliance finishes, industrial maintenance or protective coatings</i></p>
BRB Siloen® ISR 168 Phenyl Propyl Resin Intermediate	100%	<ul style="list-style-type: none"> • Binder for heat- resistant paints <p><i>*Can produce silicone - organic hybrid copolymers by condensation reaction *Improves weatherability and heat resistance of final hybrid coating *Provides better colour consistency, longer gloss retention of final hybrid coating *Reduce water uptake and dirt pick up of hybrid coating in outdoor application</i></p>
BRB Siloen® SR 379 Methyl Silicone Resin in xylene-butanol	50%	<ul style="list-style-type: none"> • Binder for heat-resistant paints • Binder for anti-corrosion paints <p><i>*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</i></p>
BRB Siloen® SR 379N Methyl Silicone Resin in xylene	50%	<ul style="list-style-type: none"> • Binder for heat-resistant paints • Binder for anti-corrosion paints <p><i>*Slower air-drying rate and lower air-drying hardness vs BRB Siloen® 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</i></p>
BRB Siloen® SR 383 Methyl Silicone Resin in xylene	50%	<ul style="list-style-type: none"> • Binder for heat-resistant paints • Binder for anti-corrosion paints <p><i>*Medium hardness methyl phenyl silicone resin *Tack-free drying at room temperature *Acceptable hardness before 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</i></p>
BRB Siloen® SR 313 Methyl Phenyl Silicone Resin in xylene	80%	<ul style="list-style-type: none"> • Binder for heat-resistant paints • Binder for anti-corrosion paints <p><i>*Similar properties as BRB Siloen® SR 383 but recommended to formulate high solids low VOC paint</i></p>
BRB Siloen® SR 833 Alkoxy Methyl Silicone Oligomer	100%	<ul style="list-style-type: none"> • Binder for room temperature moisture curing heat resistant paints <p><i>*Solvent free *Room temperature curing by reacting with atmospheric moisture (requires a catalyst/ curing agent) *High hardness at ambient and hot temperature (does not soften at high temperature) *Also suitable for very high-temperature application (up to 650°C)</i></p>
BRB Siloen® SR 385 FD Methyl Phenyl Silicone Resin in xylene	50%	<ul style="list-style-type: none"> • Binder for non-stick coatings material in contact with foodstuff; non-sticking bakery pans for bread, rusks, biscuits, cakes, etc. <p><i>*Perfect 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)</i></p>



BRB Siloen® Paint Additives Range

Product Name/Type	Active	Application/Features/Suitable Thinners	Binders Compability/Typical Dosage & Point of addition
BRB Siloen® WA 261 Modified Trisiloxane	100%	<ul style="list-style-type: none"> Excellent surface tension depressant <i>*Helps flow and levelling *No or very low foam stabilisation</i> Thinnable with Isopropyl Alcohol, Acetone, Water	Waterborne, solvent-borne and UV/EB coatings 0.1 to 0.5% let-down stage or post-addition
BRB Siloen® WA 263 Silicone Polyether Copolymer solution	50% in DGME (1)	<ul style="list-style-type: none"> Waterborne coating <i>*Reduce surface tension, improving wetting and levelling *pH stable (4 to 10) *Do not reduce slip *Recoatable</i> Dilutable with Water	Waterborne Acrylate, Alkyd, Polyurethane, Polyester 0.2 to 2.0% let-down stage or post-addition
BRB Siloen® WA 264 Silicone Polyether Copolymer	100%	<ul style="list-style-type: none"> Waterborne coating that does not contain co-solvent <i>*Improves wetting and levelling *pH stable (4 to 10) *Do not reduce slip *Recoatable</i> Dilutable with Water	Waterborne Acrylate, Alkyd, Polyurethane, Polyester 0.05 to 1.0% let-down stage or post-addition
BBRB Siloen® WA 265 Low Viscosity Silicone Polyether	100%	<ul style="list-style-type: none"> Improve wetting on difficult substrates <i>*Water-based flexo inks for PE, PP and PET film *Very effective in neutral pH (6 to 8)</i> Thinnable with Isopropyl Alcohol, Acetone, Water	Waterborne Acrylate, Alkyd, Polyurethane, Polyester 0.2 to 1.0% let-down stage or post-addition
BRB Siloen® LA 270 Silicone Polyether Copolymer solvent solution	10% in xylene	<ul style="list-style-type: none"> General purpose levelling agent for solvent-borne coatings <i>*Improves levelling *Strong anti-crater effect *Medium slip *Recoatable</i> 	Solvent-borne Acrylic, Alkyd, Amide, Epoxy, Nitrocellulose, Polyester, Polyurethane, Vinyl 0.1 to 0.5% let-down stage or post-addition
BRB Siloen® LA 271 Glycol Modified Siloxane	100%	<ul style="list-style-type: none"> For solvent, EB/UV and waterborne coatings <i>*Improves levelling, slip, mar resistance, and anti-blocking *Enhances gloss</i> Dilutable with Isopropyl Alcohol, Acetone, White Spirit and dispersible in water	Acrylic, Epoxy, Vinyl, Alkyd, Amide, Polyester, Polyurethane, Nitrocellulose 0.05 to 1.0% 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 (2)	<ul style="list-style-type: none"> Provides strong slip, smoothness and scratch resistance <i>*pH stable (4 to 10) *Defoaming properties</i> Dilutable with Alcohols, Glycol ethers and dispersible in water	Waterborne, solvent-borne, radiation-curable printing inks and overprint varnishes 0.1 to 1.0% let-down stage
BRB Siloen® SMA 281 Ultrahigh MW Polysiloxane dispersion	65% in water	<ul style="list-style-type: none"> Waterborne and solvent-borne coatings <i>*Imparts mar resistance, slip and release *Reduces CoF</i> Dilutable with Water, Polar Solvent Low- cyclic version available	Waterborne wood coatings, printing inks, leather top coating (including solvent-based) 0.05 to 3.0% let-down stage or post-addition
BRB Siloen® SMA 283 Polyether modified siloxane	100%	<ul style="list-style-type: none"> Provides slip and smoothness <i>*Helps flow, levelling and anti-crater *Recoatable</i> Dilutable with Alcohols, Glycol ethers	Solvent-borne, waterborne and UV/EB coatings 0.05 to 1.0% let-down stage or post-addition
BRB Siloen® SMA 284 Ultrahigh MW Polysiloxane gum dispersion	80% in water	<ul style="list-style-type: none"> Waterborne and solvent-borne coatings <i>*Imparts mar resistance, slip and release *Reduces CoF</i> Dilutable with Water, Polar Solvent	Acrylic, Alkyd, Epoxy, Polyester, Polyurethane, Vinyl 0.05 to 3.0% let-down stage or post-addition High viscosity product: pre-dilution achieves to get homogeneous dispersion into the coating

BRB Siloen® Paint Additives Range (cont.)

Product Name/Type	Active	Application/Features/Suitable Thinners	Binders Compability/Typical Dosage & Point of addition
BRB Siloen® SMA 286 Crosslinkable Silicone Acrylate Pre-polymer	100%	<ul style="list-style-type: none"> • Specially designed for UV/EB system • Improves slip, scratch, mar resistance as well as release properties <p><i>*Reduce CoF *Permanent binding into the matrix preventing migration from the coating *Also suitable for polymer modification</i></p> <p>Dilutable with Aromatic and Aliphatic solvents and dispersible in water up to 10%</p>	CoF Reduction: 0.2 to 1.0% Release: 1.5 to 3.0 Let-down stage or post-addition
BRB Siloen® SMA 287 Alkyl aryl-modified polysiloxane	52% in water	<ul style="list-style-type: none"> • Improve slip and enhance the anti-blocking properties of coatings at low dosages • No impact on intercoat adhesion • Good compatibility with WB Acrylic and WB PUD 	For waterborne applications: 0.1-1% (see the TDS for details)
BRB Siloen® SMA 288 Alkyl aryl-modified polysiloxane	60% in water	<ul style="list-style-type: none"> • Designed for excellent slip, smoothness and anti-blocking performance • Good compatibility with WB Acrylic and WB PUD 	For waterborne applications: 0.1-1% (see the TDS for details)
BRB Siloen® DA 290 Fluorosilicone solvent dispersion	0.75% in DIBK (3)	<ul style="list-style-type: none"> • Defoamers for solventless and solvent-borne coating <p><i>*Highly effective at low addition</i></p> <p>Dilutable with Ketones</p>	Recommended for PU or Epoxy based plastic systems 0.1 to 0.7% let-down stage or post-addition
BRB Siloen® DA 293 Silicone Antifoam emulsion	10% in water	<ul style="list-style-type: none"> • Silicone defoamer for aqueous coatings and adhesives • Suitable for high PVC systems (PVC 60 to 85) <p><i>*Cost-effective alternative to mineral defoamers</i></p>	0.1% up to 0.6% at whatever stage even if preferably to split the selected amount between grind and let-down stage
BRB Siloen® TA 394 Ultrahigh MW Polysiloxane dispersion	10% in xylene	<ul style="list-style-type: none"> • Hammertone finish • Designed for solvent-borne coating 	0.05 to 0.8% let-down stage
BRB Siloen® PDA 222 Alkyl modified siloxane	100%	<ul style="list-style-type: none"> • Dispersant processing aid alkylsiloxane for surface treatment of inorganic fillers and any pigments used in thermoplastic formulations and solvent-borne paints and inks <p><i>*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</i></p>	TiO2 pigment dispersant 0.5 to 4.0% depending on pigment quality (higher quality pigment requires lower dosage) Grind stage

(1) Diethylene glycol monoethyl ether (2) Di-Propylene Glycol Methyl ether (3) Di-Isobutylketone





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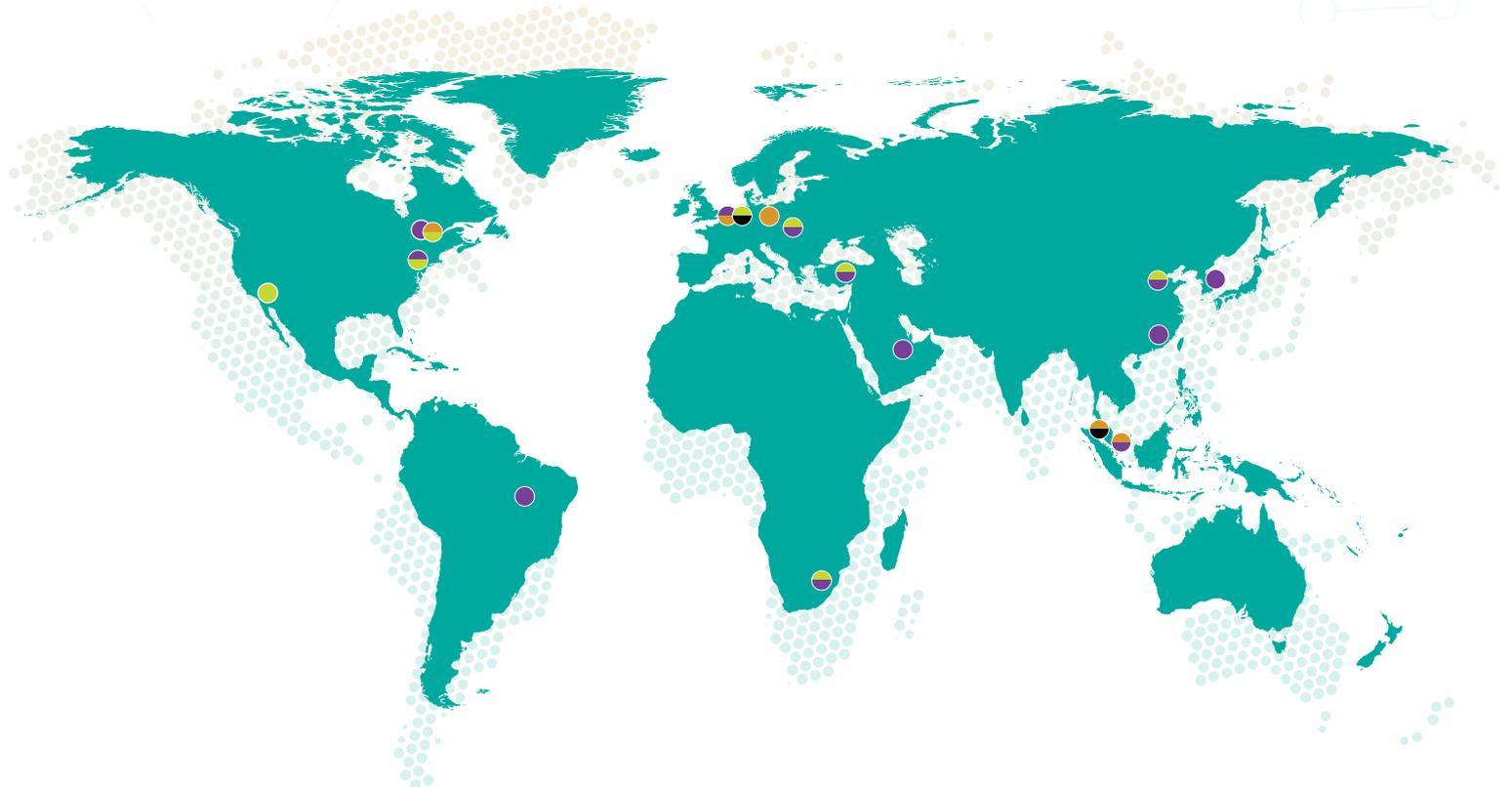
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