



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 Silane/Siloxane concentrate	100%	<ul style="list-style-type: none"> <li>• Solvent dilutable silane-siloxane water repellent impregnating agent</li> <li>• Tin Catalyst free</li> </ul> <p><i>*Highly effective general purpose for mineral and high alkaline substrates (concrete, sandstone) *Early water repellency/fast beading effect development *High depth of penetration *Easy dilutable in Aliphatic, Aromatic, Isopropylalcohol *Compliant with AASTHO Product Evaluation &amp; Audit Solutions Program</i></p>
BRB Siloen® SR 608 Silane/Siloxane concentrate	100%	<ul style="list-style-type: none"> <li>• Solvent-dilutable silane-siloxane blend masonry water repellent</li> </ul> <p><i>*Alkali stable *High penetration for long-lasting protection *Good water repellency *Easily dilutable *Very effective on highly porous carbonatic material (limestone)</i></p>
BRB Siloen® 694 Alkyl Alcoxy Silane	100%	<p><i>*Suitable for hydrophobic priming as well as water repellent treatment of (reinforced) concrete *High penetration depth *Alkaline resistance *Strong reduction of chloride ions and water absorption *Compliant with AASTHO Product Evaluation &amp; Audit Solutions Program</i></p>
BRB Siloen® 882 Alkyl Silane Olygomer	>98%	<ul style="list-style-type: none"> <li>• Integral water repellent for cement-based construction material (admixture for fibre-reinforced cement boards, autoclaved lightweight concrete)</li> </ul> <p><i>*Reduce Capillarity water absorption *Added as supplied from 0.1 to 0.5% by weight vs total solid to water-based cementitious slurries (requires high shear mixing units)</i></p>
BRB Siloen® 5022 WR WB emulsion	50%	<ul style="list-style-type: none"> <li>• Water repellent for porous mineral substrates <ul style="list-style-type: none"> <li>●●●● Sandstone, Sandstone/Limestone, Cement, Terracotta</li> <li>○●●● Concrete, Reinforced concrete</li> <li>○●●● Limestone</li> <li>- - - - Marble</li> </ul> </li> <li>• Suitable as water repellent for liquid admixture</li> <li>• In-plant water repellent impregnation of <ul style="list-style-type: none"> <li>●●●● Fibre-reinforced cement, Aerated concrete, Mineral fibre, Lightweight aggregates, Fired clay/Terracotta</li> <li>○●●● Sand lime bricks</li> </ul> </li> <li>• Water repellent primer for subsequent coating of decorative topcoats</li> </ul> <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"> <li>• Water repellent liquid admixture for non-load bearing concrete-based products</li> <li>• Water repellent impregnating and priming of alkaline mineral surfaces</li> </ul>
BRB Siloen® MXP5 Fine Powder	50%	<ul style="list-style-type: none"> <li>• High-efficiency water repellent powder additive for cement-based mortars and renders</li> </ul> <p><i>*Alkali stable *Good compatibility with other additives *Disperse easily in water *No impact on rheology *Non-toxic</i></p>
BRB Siloen® SR 349 Water Solution	54%	<ul style="list-style-type: none"> <li>• Potassium Methyl Siliconate solution to impart water repellence to gypsum and gypsum fibreboard, aerated concrete, perlite, vermiculite, in-plant impregnation of terracotta tiles, bricks, flowerpots</li> <li>• Wall injection (damp-proof chemical barriers)</li> </ul>
BRB Siloen® WRC4 Thixotropic Cream	40%	<ul style="list-style-type: none"> <li>• Water repellent for mineral porous substrates <ul style="list-style-type: none"> <li>●●●● Sandstone, Sandstone/Limestone, Cement, Terracotta</li> <li>○●●● Concrete</li> </ul> </li> <li>• Water repellent for damp-proof chemical barrier</li> </ul> <p><i>*Alkali stable *Good beading *Easy diffuse into the wall, do not need high humidity vs higher solids creams (damp proof)</i></p>
BRB Siloen® SR 403 Reactive PDMS emulsion	60%	<ul style="list-style-type: none"> <li>• Water repellent additive for silicone-based paints, plaster, and renders</li> <li>• Admixture for cement-based mortars with improved water resistance and beading</li> </ul>

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

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

Product Name/Type	Active	Application/Main Features
<b>BRB Siloen® HPA 406</b> Modified Siloxane Resin emulsion	55%	<ul style="list-style-type: none"> <li>• High-performance water-repellent beading effect additive with minimal dirt pick up suitable for silicone, silicate, water-based dispersions and masonry paints</li> <li>• Water repellent primer for subsequent coating of decorative topcoats</li> </ul>
<b>BRB Siloen® HPA 415</b> Methyltrisilanetriol Potassium Salt	54%	<p><i>*pH controller additive for water-based dispersion paints *Improve water repellency and wet scrub resistance *Non smelling *VOC free</i></p>

## BRB Siloen® Resins Range for Heat Resistant Paints

Product Name/Type	Active	Application/Main Features
<b>BRB Siloen® SR 379</b> Methyl Silicone Resin in xylene-butanol	50%	<ul style="list-style-type: none"> <li>• Binder for heat-resistant paints</li> <li>• Binder for anti-corrosion paints</li> </ul> <p><i>*Fast tack-free drying time in a 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>
<b>BRB Siloen® SR 379N</b> Methyl Silicone Resin in xylene	50%	<ul style="list-style-type: none"> <li>• Binder for heat-resistant paints</li> <li>• Binder for anti-corrosion paints</li> </ul> <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 aluminum pigment) *Good corrosion protection when combined with zinc-rich primers *Low viscosity</i></p>
<b>BRB Siloen® SR 383</b> Methyl Phenyl Silicone Resin in xylene	50%	<ul style="list-style-type: none"> <li>• Binder for heat-resistant paints</li> <li>• Binder for anti-corrosion paints</li> </ul> <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>
<b>BRB Siloen® SR 313</b> Methyl Phenyl Silicone Resin in xylene	80%	<ul style="list-style-type: none"> <li>• Binder for heat-resistant paints</li> <li>• Binder for anti-corrosion paints</li> </ul> <p><i>*Similar properties as BRB Siloen® SR 383 but recommended to formulate high solids low VOC paint</i></p>
<b>BRB Siloen® SR 833</b> Alkoxy Methyl Silicone Oligomer	100%	<ul style="list-style-type: none"> <li>• Binder for room temperature moisture curing heat resistant paints</li> </ul> <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>
<b>BRB Siloen® SR 385 FD</b> Methyl Phenyl Silicone Resin in xylene	50%	<ul style="list-style-type: none"> <li>• Binder for non-stick coatings material in contact with foodstuff; non-sticking bakery pans for bread, rusks, biscuits, cakes, etc.</li> </ul> <p><i>*Perfect balance between hardness (medium) and flexibility *Good release performances *Suitable 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/Description	Active	Application/Features/Suitable Thinners	Binders Compatibility/Typical Dosage & Point of addition
BRB Siloen® WA 261 Modified Trisiloxane	100%	<ul style="list-style-type: none"> <li>• <b>Excellent surface tension depressant</b> <i>*Helps flow and levelling *No or very low foam stabilisation</i> Thinnable with Isopropyl Alcohol, Acetone, Water</li> </ul>	<b>Waterborne, solvent-borne and UV/EB coatings</b> 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"> <li>• <b>Waterborne coating</b> <i>*Reduce surface tension, improving wetting and levelling *pH stable (4 to 10) *Do not reduce slip *Recoatable</i> Dilutable with Water</li> </ul>	<b>Waterborne Acrylate, Alkyd, Polyurethane, Polyester</b> 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"> <li>• <b>Waterborne coating that does not contain co-solvent</b> <i>*Improves wetting and levelling *pH stable (4 to 10) *Do not reduce slip *Recoatable</i> Dilutable with Water</li> </ul>	<b>Waterborne Acrylate, Alkyd, Polyurethane, Polyester</b> 0.05 to 1.0% let-down stage or post-addition
BRB Siloen® WA 265 Low Viscosity Silicone Polyether	100%	<ul style="list-style-type: none"> <li>• <b>Improve wetting on difficult substrates</b> <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</li> </ul>	<b>Waterborne Acrylate, Alkyd, Polyurethane, Polyester</b> 0.2 to 1.0% let-down stage or post-addition
BRB Siloen® WA 266 Silicone Polyether Copolymer	100%	<ul style="list-style-type: none"> <li>• <b>Silicone surfactants for waterborne coatings, adhesives and maintenance products</b> <i>*Reduce surface tension *Improve levelling *Do not increase slip *Low foam stabilization *Recoatable *Low SVHC (D4, D5, D6 &lt; 0.1%)</i></li> </ul>	<b>Pure Acrylic, Styrene-Acrylic, PU Dispersion, PU-Acrylic</b> 0.05 to 1.0% preferable in let-down stage or post-addition
BRB Siloen® LA 270 Silicone Polyether Copolymer solvent solution	10% in xylene	<ul style="list-style-type: none"> <li>• <b>General purpose levelling agent for solvent-borne coatings</b> <i>*Improves levelling *Strong anti-crater effect *Medium slip *Recoatable</i></li> </ul>	<b>Solvent-borne Acrylic, Alkyd, Amide, Epoxy, Nitrocellulose, Polyester, Polyurethane, Vinyl</b> 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"> <li>• <b>For solvent, EB/UV and waterborne coatings</b> <i>*Improves levelling, slip, mar resistance, and anti-blocking *Enhances gloss</i> Dilutable with Isopropyl Alcohol, Acetone, White Spirit and dispersible in water</li> </ul>	<b>Acrylic, Epoxy, Vinyl, Alkyd, Amide, Polyester, Polyurethane, Nitrocellulose</b> 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® LA 274 Alkyl Aryl Modified Siloxane	100%	<ul style="list-style-type: none"> <li>• <b>For solvent-borne, solventless and powder coatings</b> <i>*Improves levelling, de-aeration, mar resistance, anti-blocking *Enhances gloss *Recoatble, doesn't affect the adhesion of treated surface</i></li> </ul>	<b>Acrylic, Epoxy, Alkyd, Polyester, Polyurethane, Nitrocellulose, Vinyl</b> 0.05 to 0.5% w. on total formula post addition either let down
BRB Siloen® SMA 280 Polyether modified siloxane solution	50% in DPGME (2)	<ul style="list-style-type: none"> <li>• <b>Provides strong slip, smoothness and scratch resistance</b> <i>*pH stable (4 to 10) *Defoaming properties</i> Dilutable with Alcohols, Glycol ethers and dispersible in water</li> </ul>	<b>Waterborne, solvent-borne, radiation-curable printing inks and overprint varnishes</b> 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"> <li>• <b>Waterborne and solvent-borne coatings</b> <i>*Imparts mar resistance, slip and release *Reduces CoF</i> Dilutable with Water, Polar Solvent</li> </ul>	<b>Waterborne wood coatings, printing inks, leather top coating (including solvent-based)</b> 0.05 to 3.0% 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
<b>BRB Siloen® SMA 283</b> Polyether modified siloxane	<b>100%</b>	<ul style="list-style-type: none"> <li>• Provides slip and smoothness</li> </ul> <i>*Helps flow, levelling and anti-crater</i> <i>*Recoatible</i> Dilutable with Alcohols, Glycol ethers	<b>Solvent-borne, waterborne and UV/EB coatings</b> 0.05 to 1.0% let-down stage or post addition
<b>BRB Siloen® SMA 284</b> Ultrahigh MW Polysiloxane gum dispersion	<b>80% in water</b>	<ul style="list-style-type: none"> <li>• Waterborne and solvent-borne coatings</li> </ul> <i>*Imparts mar resistance, slip and release</i> <i>*Reduces CoF</i> Dilutable with Water, Polar Solvent	<b>Acrylic, Alkyd, Epoxy, Polyester, Polyurethane, Vinyl</b> 0.05 to 3.0% let-down stage or post-addition High viscosity product: pre-dilution achieves to get homogeneous dispersion into the coating
<b>BRB Siloen® SMA 286</b> Crosslinkable Silicone Acrylate Pre-polymer	<b>100%</b>	<ul style="list-style-type: none"> <li>• Specially designed for UV/EB system</li> <li>• Improves slip, scratch, and mar resistance as well as release properties</li> </ul> <i>*Reduce CoF</i> <i>*Permanent binding into the matrix preventing migration from the coating</i> <i>*Also suitable for polymer modification</i> Dilutable with Aromatic and Aliphatic solvents and dispersible in water up to 10%	CoF Reduction: 0.2 to 1.0% Release: 1.5 to 3.0% Let-down stage or post-addition
<b>BRB Siloen® DA 290</b> Fluorosilicone solvent dispersion	<b>0.75% in DIBK (3)</b>	<ul style="list-style-type: none"> <li>• Defoamers for solventless and solvent-borne coating</li> </ul> <i>*Highly effective at low addition</i> Dilutable with Ketones	<b>Recommended for PU or Epoxy based plastic systems</b> 0.1 to 0.7% let-down stage or post addition
<b>BRB Siloen® DA 293</b> Silicone antifoam emulsion	<b>10% in water</b>	<ul style="list-style-type: none"> <li>• Silicone defoamer for aqueous coatings and adhesives</li> <li>• Suitable for high PVC systems (PVC 60 to 85)</li> </ul> <i>*Cost-effective alternative to mineral defoamers</i>	0.1% up to 0.6% at whatever stage even if preferably to split the selected amount between grind and let down
<b>BRB Siloen® TA 394</b> Ultrahigh MW Polysiloxane dispersion	<b>10% in xylene</b>	<ul style="list-style-type: none"> <li>• Hammertone finish</li> <li>• Designed for solvent-borne coating</li> </ul>	0.05 to 0.8% let-down stage
<b>BRB Siloen® PDA 222</b> Alkyl modified siloxane	<b>100%</b>	<ul style="list-style-type: none"> <li>• Dispersant processing aid alkylsiloxane for surface treatment of inorganic fillers and any pigments used in thermoplastic formulations and solvent-borne paints and inks</li> </ul> <i>*Allows higher pigment content</i> <i>*Improved water repellency and weatherability</i> <i>*Enhanced colour strength</i> <i>*Higher heat resistance vs organic dispersant, reducing yellowing in high-temperature application</i> <i>*Improved dispersion stability, preventing flooding and floating</i>	<b>TiO<sub>2</sub> pigment dispersant</b> 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 Methylether

(3) Di-Isobutylketone



**BRB International B.V.**

PO Box 3552  
NL-6017 ZH Thorn  
Office: Europastraat 5  
NL-6014 CD Ittervoort  
The Netherlands

P +31 475 560 300  
info@brbbv.com  
www.brb-international.com



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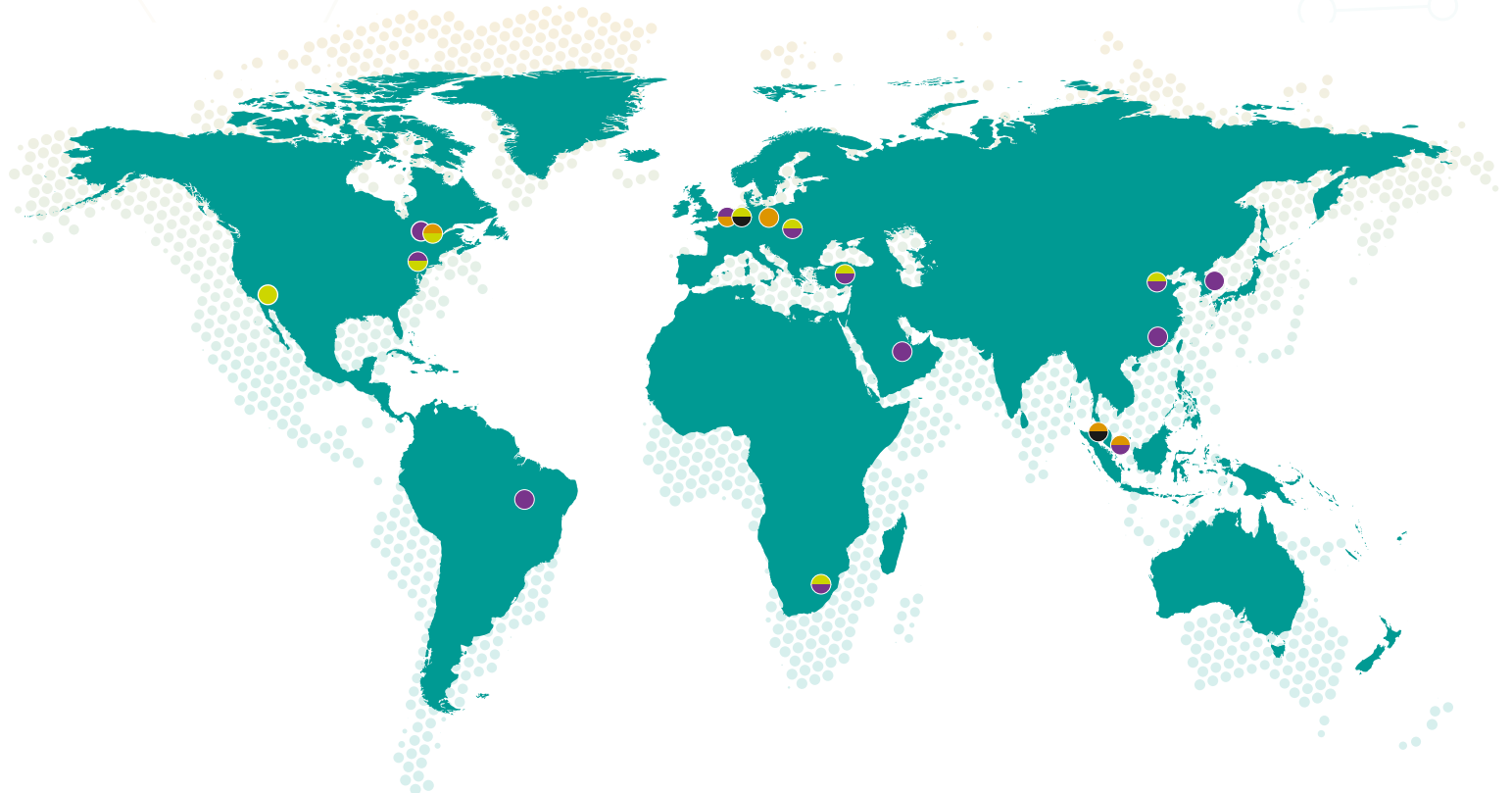
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