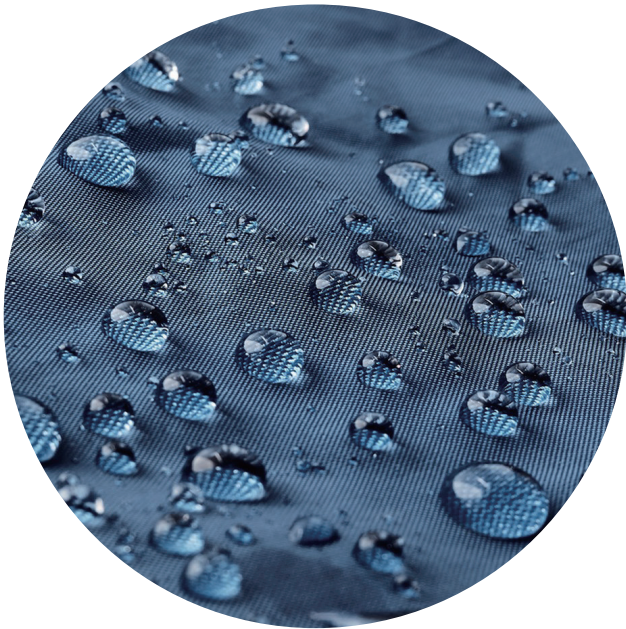


Solvent system

Ionicity	Solid content	Fields of application	Properties
M-Z00	★ Spray	ZDHC Level 3	
Weakly cation	24%	Spray on textiles (Polyester, nylon, cotton, polyester/cotton blend, polyester/viscose blend, etc.), leather, synthetic leather, shoes, and other substrates; Diluted in any proportion with petroleum solvent, and has excellent water repellent performance after air dry.	High polymer emulsion based on silicone system; Need to be diluted with ethyl acetate, white oil, butyl acetate, and other solvents; Free of APEO and PFAS
M-Z01N	★ Added		
Nonionic	65%	Suitable for PU and various fibers production process	High polymer emulsion based on polyurethane system; Improve water proof effect of synthetic leather and artificial leather; Compatible with PU resin, DMF and color paste solvents; Free of PFOA
M-Z03Y	★ Anti-siphon		
Nonionic	40%	Water proof and anti-siphon finishing for shoes material (Shoelaces, webbing, etc.) and yarns; Water proof for shoes by spraying method; Less effect on color shade and handle.	High polymer emulsion based on silicone system; Need to be diluted with ethyl acetate, white oil, butyl acetate, and other solvents; Free of APEO and PFAS
M-Z05N	★ Added		
Nonionic	45%	Added in PU resin to improve water proof effect and soil release performance.	High polymer emulsion based on polyurethane system; Added in PU resin to improve water proof effect and anti -siphon; Free of PFCs

Special fluorine free repellent

Ionicity	Solid content	Fields of application	Properties
WSP-32A	★ Special for down	ZDHC Level 3	
Weakly cation	24%	Suitable for Down's water repellency, not affect fluffy of the down	Special high polymer emulsion; Excellent down waterproofing agent; Free of fluorine and silicon, match environmental requirements



Focus on water & oil repellency agents and application solutions



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Fluorine Free Repellency Solutions



Ecological fluorine-free water repellent

Polymer emulsion of modified polyurethane system

Ionicity	Solid content	Fields of application	Properties
WSP-01 ★ High peel strength			ZDHC Level 3
Weakly cationic	27%	For various textile (polyester, nylon, cotton, polyester/cotton blend, polyester/viscose blend etc.) water proof finishing	Excellent initial waterproof effect and washing durability
WSP-02D ★ Anti-siphon			ZDHC Level 3
Weakly cationic	24%	For various textile (polyester, nylon, polyester/cotton blend, polyester/viscose blend etc.) water proof finishing	Suitable for synthetic fiber and blends textile WR finishing, with softer handle Also suitable for leather's anti-siphon finishing
WSP-03 ★ Improve chalk mark			ZDHC Level 3
Weakly cationic	30%	For various textile (polyester, nylon, polyester/cotton blend, polyester/viscose blend etc.) water proof finishing	Suitable for synthetic fiber and blends textile WR finishing, with softer handle and less color change; Improve chalk mark, and good bonding fastness
WSP-09 ★ Cotton			ZDHC Level 3
Weakly cationic	24%	For various textile (polyester, nylon, polyester/cotton blend, polyester/viscose blend etc.) water proof finishing	Suitable for various textile WR finishing, especially on Cotton and polyester/ cotton textile; With softer handle and improve chalk mark; Free of PFAS

Ionicity	Solid content	Fields of application	Properties
WSP-60 ★ Technical fitment			ZDHC Level 3
Weakly cationic	21%	For various textile (polyester, nylon, polyester/cotton blend, polyester/viscose blend etc.) water proof finishing	The finished fabric has good handle, light scratch marks, less color change, and excellent adhesion fastness of coating; Free of APEO, PFAS, formaldehyde and other prohibited substances
WSP-80 ★ Line dry			ZDHC Level 3
Weakly cationic	24%	For various textile (polyester, nylon, polyester/cotton blend, polyester/viscose blend etc.) water proof finishing	Excellent water repellency effect with good handle Excellent washing durability, line dry can recover the water proof effect
WSP-A ★ Anion			
Weakly anion	29%	Suitable for textiles and leather	Good stability, good continuity; Free of APEO and PFAS

Polymer emulsion of Silicone system

Ionicity	Solid content	Fields of application	Properties
WST-01 ★ Normal temperature			
Weakly cation	25%	For various textile (polyester, nylon, polyester/cotton blend, polyester/viscose blend etc.) and leather	Good water proof effect after line dry; Soft handle, less influence on color shade, color fastness; free of perfluorinated compounds
WSS-01 ★ Anti-slipping			ZDHC Level 3
Weakly cation	25%	For polyester, nylon, cotton, polyester/cotton blend, polyester/viscose blend textiles	Excellent stability, continuity; Excellent anti-slipping effect; Suitable for coating and bonding process

Crosslinker

Polyurethanes type		FX-31	ZDHC Level 3
Polyacrylate type		FX-21	
Polyisocyanurate type		FX-03, FX-29A	ZDHC Level 3
Polyisocyanurate type		FX-17	

Polymer emulsion of acrylic acid system

Ionicity	Solid content	Fields of application	Properties
WSA-01 ★ Cost-effective			
Weakly cationic	30%	For polyester, nylon, cotton, polyester/cotton blend, polyester/viscose blend textiles	Cost-effective, good initial waterproof performance; Free of APEO and PFAS
WSA-03 ★ Washing durability			ZDHC Level 3
Weakly cationic	30%	For polyester, nylon, cotton, polyester/cotton blend, polyester/viscose blend textiles	Good initial and washing durable water proof effect with good handle Improve chalk mark
WSA-70 ★ Plant oil repellency			ZDHC Level 3
Cationic	24%	For polyester, nylon, cotton, polyester/cotton blends, polyester/viscose blends	Good washing durable; Good water proof effect with good handle, improve chalk mark; Improve the textiles' oil repellency performance, corn oil, peanut oil, olive oil etc. Free of APEO, PFAS, and formaldehyde
WSA-80 ★ Excellent performance			ZDHC Level 3
Cationic	30%	For polyester, nylon, cotton, polyester/cotton blends, polyester/viscose blends	Especially suitable for spandex and cotton textiles; Good performance with good handle; combine with cross-linker for good washing durability
WSA-L ★ Low temperature			ZDHC Level 3
Weakly cationic	30%	For polyester, nylon, cotton, polyester/cotton blends, polyester/viscose blends	Good performance with soften handle; Suitable 120℃-130℃ low temperature curing process; Good continuity and stability; free of PFAS
WSA-N ★ Nonionic			
Nonionic	30%	For polyester, nylon, cotton, polyester/cotton blends, polyester/viscose blends	Free of PAHS; good compatibility with others auxiliary agent; suitable for one-step process of printing and water proof finishing