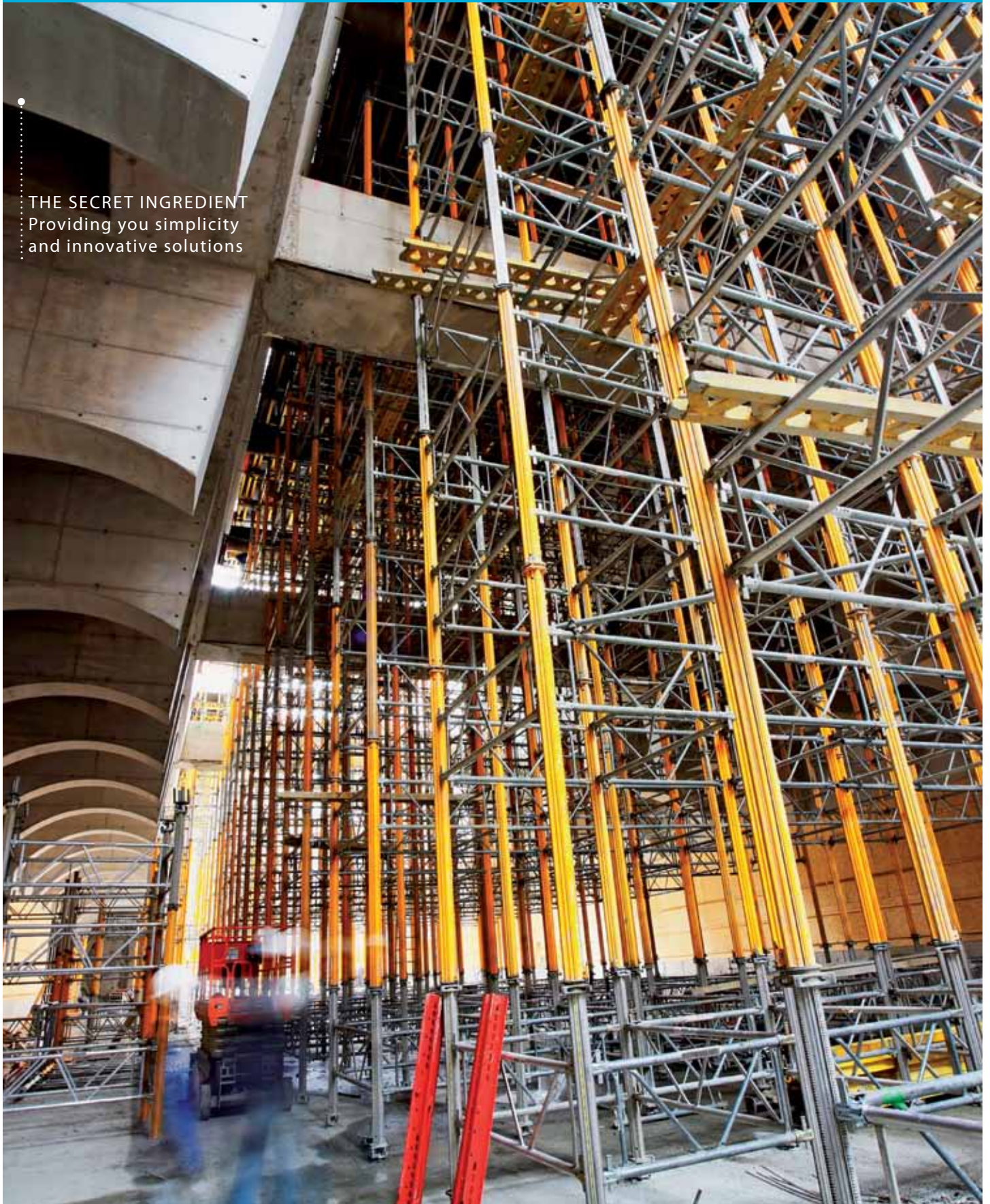


THE SECRET INGREDIENT  
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**ADDITIVES - ADMIXTURE**

Ingredient	Type	Trade name	Supplier	Comments
Accelerator	Calcium nitrate		Various	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Accelerator	Aluminium sulfate		Feralco	Reduce the set time Of Fresh Concrete And Speed Up The Early Strength Gain Of Hardened Concrete.
Accelerator	Sodium hydroxyde, potassium hydroxyde		Various	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Accelerator	Calcium, sodium, aluminium, lithium chloride		Various	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Accelerator	Triethanolamine		BASF	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Accelerator	Sodium, potas-sium silicate		Various	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Accelerator	Lithium, calcium, potassium, sodium carbonate		Various	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Accelerator	Oxalic acid, calcium formate		Various	Reduce the set time of fresh concrete and speed up the early strength gain of hardened concrete.
Air entraining agent	Alkylsulphonate	Triton®	Dow Chemical	Help to control quantity of small, uniformly distri-buted air bubbles to be incorporated during mixing which remain after hardening.
Air entraining agent	Alkylsulphate	Empicol®,	Huntsman	Help to control quantity of small, uniformly distributed air bubbles to be incorporated during mixing which remain after hardening.
Air entraining agent	Alkylsulphonate	Nansa®	Huntsman	Help to control quantity of small, uniformly distributed air bubbles to be incorporated during mixing which remain after hardening.
Air entraining agent	Alkylpolyglycol ether	Surfonic®	Huntsman	Help to control quantity of small, uniformly distributed air bubbles to be incorporated during mixing which remain after hardening.
Anti freeze	Sodium gluconate		Jungbunzlauer	Speed up the early strength gain of hardened concrete in cold temperature.
Anti freeze	Sodium nitrite / nitrate		BASF	Speed up the early strength gain of hardened concrete in cold temperature.
Anti freeze	Monopropylene / monoethylene glycol		Various	Speed up the early strength gain of hardened concrete in cold temperature
Anti freeze	Sodium, potassium sulfate		Various	Speed up the early strength gain of hardened concrete in cold temperature.
Chromate reducers	Iron(II) sulphate	Ferromel	Melspring	Reduce the content of water soluble chromium (VI) in cement paste below the limit value of 2 ppm to water insoluble chromium (III).
Corrosion inhibitor	Sodium derivatives: Sodium hydroxyde, benzoate, carbonate, silicate		Various	Corrosion inhibitors for coatings. Anti-corrosive and flash rust additive.
Corrosion inhibitor	Calcium / sodium nitrite		Various	Commonly used in colors/pigments. Strong oxidizing agent.
Defoamer	EO/PO block	Empilan®	Huntsman	Non ionic, low foam and outstanding wetting and dispersing properties

Defoamer	Silicone	DC series	Dow Corning	Powder and liquid defoamer/antifoam.
Defoamer	Tributylphosphate / triisobutylphosphate	TBP, TiBP		Defoamer used in concrete admixture.
Defoamer	EO/PO block	Dowfax®	Dow Chemical	Non ionic, low foam and outstanding wetting and dispersing properties.
Defoamer	Ethoxylated alcohol	Tergitol®	Dow Chemical	Non ionic, fast foam collapse rates.
Defoamer	Ethoxylated alcohol	Empilan®, Empimin®	Huntsman	Non ionic, fast foam collapse rates.
De-icer/water softener	Salt	Various	Various	Taw salt. Demineralised water.
Dispersant	Naphtalene Sulphonate	Triton® X	Dow Chemical	Dispersancy is obtained through the creation of repulsive force between the grains use in concrete or gypsum.
Dispersant	Naphtalene sulphonate	Deschofix®	Huntsman	Dispersancy is obtained through the creation of repulsive force between the grains, use in concrete, gypsum.
Gypsum	Calcium Sulfate dehydrate (Leichspat)		Various	Used as component of cement, gypsum board.
pH modifier	Hydrochloric acid, acetic acid		Various	pH modifier.
pH modifier	Monoetha-nolamines		BASF	pH modifier
Plasticizers	Inulin derivatives	Dequest PB®	Dequest	Excellent plasticizers for cement at ambient temperature, good dispersant, reduce viscosity.
Plasticizers / water reducing	Calcium, sodium lignosulphonate		Borregaard	Natural, renewable non-toxic disperging agent used to enhance flow and stabilization.
Plasticizers/water reducing	Sodium gluconate		Jungbunzlauer	Efficient plasticizers for concrete and cement.
Recycling aids (wash water, concrete remains)	Citric acid		Various	Citric acid is preferably used for the production of recycling aids.
Recycling aids (wash water, concrete remains)	Gluconic acid		Jungbunzlauer	Citric acid is preferably used for the production of recycling aids.
Recycling Aids (wash water, concrete remains)	Phosphonic acid	PBTC		Preferably used in solution, allow wash water, which is collected when concrete mixing vehicles and mixing equipment are cleaned to be reused and allow leftover concrete to be reused as well.
Retarder	Tetrapotassium pyrophosphate, sodium tripolyphosphate, sodium hexametaphosphate		Thermphos	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather.
Retarder	Cellulose ether	Walocel® Methocel® Cellosize®	DOW	Slow down the hydration speed, keep the flow of fresh cement, improve handling/ transportation during warm weather.
Retarder	Calcium / sodium lignosulfonate		Borregaard	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather
Retarder	Sodium gluconate		Jungbunzlauer	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather.
Retarder	Zinc oxide		De Craene	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather.

Retarder	Phosphonate derivatives	Dequest ®	Dequest	Extremely effective in retarding the hardening of cement, reduce viscosity, good dispersant in coatings and slurries.
Retarder	Gluconic acid		Jungbunzlauer	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather.
Retarder	Boric derivatives ( boric acid, borax..)		Tinto Rio Minerals	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather.
Retarder	Oxalic acid		Various	Slow the rate of slump loss, allowing the concrete to remain workable longer in hot weather.
Rheology modifier	Xanthan gum / starch		Various	Suitable for cement slurries, gypsum based mortar and screeds.
Rheology Modifier	Casein		Various	Suitable for cement slurries, gypsum based mortar and screeds, a biodegradable dispersant and fluid loss control additive, self levelling additive for cement.
Rheology modifier	Hydroxyethyl cellulose (HEC)	Cellosize®	DOW	Thickening and water retention agent.
Rheology modifier	Hydroxy propyl methyl cellulose	Methocel®	DOW	Thickening agent particularly recommended for ready mix tile adhesives and cement based product.
Rheology modifier	Methyl Cellulose Ethyl Hydroxyl ethyl cellulose Carboxy methyl cellulose	Walocel®	DOW	Particularly recommended for gypsum and plaster based product. Recommended for cement based product and other aqueous system.
Rheology modifier	Bentonite		Cebo	Enhance resistance to pressure filtration, reduces bleed, enhance stability and penetrability, and increase the cohesion and viscosity of the grout.
Stabilizer / sedimentation reducers	Cellulose ethers (MHEC, HMPC, HPMC, CMC)	Walocel® Methocel® Cellosize®	DOW	Reduces the loss of water by a reduction of bleeding.
Stabilizer / sedimentation reducers	Xanthan gum/ starch		Various	Reduces the loss of water by a reduction of bleeding.
Stiffner / hardener	Sodium aluminate, sodium silicate, lithium, sodium, potassium carbonate, sodium, potassium fluoride		Various	Speed up the early strength gain of hardened concrete.
Stiffner / hardener	Calcium chloride		Various	Speed up the early strength gain of hardened concrete.
Super Plasticizers	Isopropyl alcohol		Various	Superplasticizer in water reducing concrete admixture.
Superplasticizer / high range water reducer	Naphtalene sulphonate (NSFC)	Dehscofix®	Huntsman	Superplasticizer in water reducing concrete admixture, can be added in large quantities to cement, high molecular weight is more effective (not entrained air).
Water repellent	Aluminium / zinc stearates		Baerlocher	Used to improve the water resistance of cement based systems.
Water repellent	Silicone Powders and emulsions		Dow Corning Chemicals	Decrease water absorption. Used in surface treatment. Broad range of water repellents for various end uses.
Water retention	Cellulose ethers (MHEC, HMPC, HPMC, CMC)	Walocel® Methocel® Cellosize®	DOW	Allow proper setting of the cement and achieve high mechanical strength retaining the necessary amount of water.

**CURING AGENT**

Ingredient	Type	Trade name	Supplier	Comments
Curing Agent	Epoxy Hardeners	DEH®	Dow Chemical	Phenolic hardener containing curing accelerator.
Curing Agent	Amine	Amicure®	Air Products	Latent curing agent.
Curing Agent	Polyamides	Ancamide®	Air Products	A comprehensive range of epoxy curing agents and diluents for coatings, adhesives and civil engineering. Teta free grades available.
Curing Agent	Polyamines Amido-amines	Ancamine®	Air Products	A comprehensive range of epoxy curing agents and diluents for coatings, adhesives and civil engineering.
Curing Agent	BF3 Complex	Anchor®	Air Products	Reduce hydroscopy and good solubility.
Curing Agent	Amine	Anquamine®	Air Products	Aqueous solutions of modified amine: low and zero voc for primers, top coat.
Curing Agent	Amine	Anquawhite®	Air Products	Waterborne curing agent designed for use in ambient or heat cure 2 part epoxy systems.
Curing Agent	Amines, polyamides	Epilink®	Air Products	Aqueous solutions of modified amine and polyamide: zero voc for concrete primers, top coat.
Curing Agent	Functional glycidyl Ether	Epodil®	Air Products	Diluents and modifiers of epoxy resins.
Curing Agent	Imidazoles	Imicure®	Air Products	Accelerator for dicyandiamide.
Curing Agent	Para toluen sulfonic acid (PTSA)	Eltesov®PTX	Huntsman	Acid catalyst for amino cross-linked systems. Resin types would include acrylics, alkyds, epoxies and polyesters. Typical amino cross-linking agents include melamines, ureas, glycourils and benzoguanamines.

**FILLERS**

Ingredient	Type	Trade name	Supplier	Comments
Fillers	Bentonites			Increase viscosity, very common in cement.
Fillers	Hydrous kaolin	Opal®	Goonvean	Fillers used to reinforce coatings and to reduce pigment levels.
Fillers	Calcium carbonate		Various	Calcium carbonate is widely used filler in paint, inks, adhesives & sealants.
Fillers	Barium Sulphate	Barytes	Various	Barium sulphate (Barytes) or BaSO4 is the most common barium mineral and is found in a pure form but also together with many other minerals. Barium sulphate is widely used in industry as an extender in the powder coatings, marine paints, can coatings, plastics & printing inks.
Fillers	Magnesium silicate	Talc		Titanium dioxide extenders, reduce cracking and sagging, and enhance matting, improve corrosion resistance and paint adhesion.
Fillers	Calcium sulphate		Various	Calcium sulphate is widely used filler in paint.
Fillers	Magnesium oxide		Various	Used as moisture absorber.

**PIGMENTS, DYES & DISPERSION**

Ingredient	Type	Trade name	Supplier	Comments
Pigments	Graphite		James Durrans & Sons	
Pigments	Titaniumdioxide	Tiona®	Cristal	Rutile and Anatase
Pigments	Chrome Oxide			Pigment.

Pigments	Natural Iron Oxide	Micronox®/ Superfine®/ Micafer®	Promindsa	Iron oxide pigments have excellent light & weathering properties with high heat resistance.
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#### RESINS & BINDERS

Ingredient	Type	Trade name	Supplier	Comments
Acrylic	PVC	Polidene®	Scott Bader	Water based, anti-corrosive primers, rust converters, etch primers, fire retardant and intumescent application.
Acrylic	Acrylic emulsions / styrene acrylic	Texicryl®	Scott Bader	A comprehensive range of acrylic emulsions for tile adhesives, putties, primers, flexible sealants and other applications.
Acrylic / acrylic co-polymer	Pure acrylic / styrene acrylic	Mowilith®	Celanese	A comprehensive range of acrylic emulsions for tile adhesives, putties, primers, flexible sealants and other applications.
Acrylic/Urethane	Acrylic/Urethane emulsion	Hybridur®	Air Products	The Hybridur® family of acrylic/urethane copolymer emulsions gives manufacturers the capability to fine-tune applications as diverse as industrial wood lacquers and coatings (including joinery), parquet, and floor coatings, and clear coats for flexible substrates.
Alkyd	Alkyd resins	Crestakyd®	Scott Bader	Solvent based and 100 % alkyds
Cellulosic	Ethyl Cellulose	Ethocel®	DOW	Ethocel® resins are a family of thermoplastics noted for their organo-solubility, film forming properties, toughness, impact resistance, and outstanding compatibility with other resins, waxes and plasticizers.
Epoxy	Epoxy	D.E.N.®	Dow Chemical	Epoxy novolac for high temperature and chemical resistance application.
Epoxy	Epoxy	D.E.R.®	Dow Chemical	An extensive range of epoxy products: Bisphenol A and F, blends, liquid, solid, in solvent, high and low Mw, modified.
Epoxy	Waterborne epoxy	XZ	Dow Chemical	Experimental aqueous epoxy resin in emulsion or dispersion.
Epoxy resin	Epoxy resin	Ancarez®	Air Products	Low viscosity epoxy resin.
Silicone	Silanes	DC series	Dow Corning	Post treatment water repellents for all building substrates.
Water repellent	Silanes	DC series	Dow Corning	Post treatment water repellents for all building substrates.
Vinyl acetate co-polymer / VAE-VeoVa	Polymer powders	DLP	DOW	Powders for plaster, cement render, mortar, tile adhesives, self-leveling flooring, fillers and grouts.
Vinyl acetate	PVA Emulsions	Texicote®	Scott Bader	Good weather resistance.
Vinyl acetate co-polymer	Vinyl acetate ethylene	Mowilith®	Celanese	A comprehensive range of acrylic emulsions for tile adhesives, floor adhesives, putties, flexible sealants, roof coatings and other.
Vinyl acetate co-polymer	Vinyl acetate / versatate	Vina-VeoVa	Celanese	Saponification resistance, low water up-take, UV-resistance, unique combination of low MFFT and high Tg, pigment binding power improved.

## SURFACTANTS

Ingredient	Type	Trade name	Supplier	Comments
Surfactants	Low Foam	Empilan® PF	Huntsman	Effective wetting agents which have greatly reduced foaming characteristics, reducing/removing the need for a defoamer to be added.
Surfactants	Silicone	DC series	Dow Corning	Effective wetting agent.
Surfactants	Disulfonate	Dowfax®	Dow Chemical	Non-ionic, high-performance surfactants that are typically used in environments requiring foam control.
Surfactants	Alcohol ethoxylates	Tergitol® 15-S/TMN	Dow Chemical	Excellent combination of excellent emulsifying, dispersing, stabilizing and wetting property profiles.
Surfactants	EO/PO Copolymer	Tergitol® X, L series	Dow Chemical	Efficient emulsifiers and stabilizers for a broad range of materials.
Surfactants	Special	Triton® CA	Dow Chemical	Outstanding wetting and stabilizers for pigment and colorant dispersion.
Surfactants	Low Foam	Triton® DF;CF/ Tergitol® MinFoam	Dow Chemical	Low foam and outstanding wetting and dispersing properties.
Surfactants	Sulfosuccinates	Triton® GR	Dow Chemical	Outstanding wetting, emulsifying and dispersing properties.
Surfactants	Sulfates / sulfonates	Triton® X 200/XN-45S	Dow Chemical	Emulsion polymerization.
Surfactants	Napthalene Sulphonate Formaldehyde	Dehscofix®	Huntsman	Strong absorption on to pigment surfaces, dispersion stability.
Surfactants	Alcohol ethoxylates	Empilan® K	Huntsman	Cost effective wetting agents good wetting onto a wide range of substrates generally not as effective as sulphosuccinates but have slightly less issues with foam.
Surfactants	EO/PO	Empilan® P	Huntsman	Efficient emulsifiers and stabilizers for a broad range of materials.
Surfactants	Diocetyl sulpho-succinate	Empimin® OT/OP	Huntsman	Highly effective wetting agents giving fast wetting of the coating onto a wide range of substrates, these have the potential advantage of improved tinter acceptance can give problems in terms of foam generation.
Surfactants	Phosphate ester	Empiphos®	Huntsman	Effective low foaming wetting agents for a wide range of substrates, providing corrosion protection, antistatic properties.
Surfactants	Aryl Phenol Ethoxylates	Dehscofix®	Huntsman	Strong absorption on to the pigment surface.

## MISCELLANEOUS

Ingredient	Type	Trade name	Supplier	Comments
Inorganic : acid, alkali and salts	Inorganic : acid, alkali and salts		Various	
Solvent				Extensive range of traditional and bio-solvents.

## OTHER ADDITIVES

Ingredient	Type	Trade name	Supplier	Comments
Adhesion Promoters	Silane	DC-Z Series	Dow Corning	Organo silanes. Adhesion promoters for organic resins onto inorganic substrates. Variety of organic reactivity for use with different resins.
Alkyl Alkanol-amines	DMEA, DEAE, MDEA	-	BASF	Specialty amine used for ph adjustment.
Anti foam	Silicone	DC series	Dow Corning	Anti foam and defoamer liquid and powder.
Cross-linking	Silane	DC series	Dow Corning	Extensive range of silanes for different binders, fillers and substrates.
Defoamer	Silicon	DC	Dow Corning	Non and organomodified silicones defoamers and antifoam agents for an affective and long lasting foam control.
Dispersant	Naphthalene Sulphonates	Dehscofix®	Huntsman	Dispersing agents for organic and inorganic pigments.
Dispersant	Sulfosuccinates	Empimin®	Huntsman	Outstanding wetting, emulsifying and dispersing properties.
Dispersant	Sulfosuccinates	Triton® GR	Dow Chemical	Outstanding wetting, emulsifying and dispersing properties.
Flame retardant	Chlorinated paraffins	Cerechlor®	Ineos	Halogen flame retardant, act as plasticizers as well.
Flame retardant	Phosphate plasticizers	T CPP, TEP, TBP	Univar	Improve LOI, especially efficient for PU.
Flow promoters	Silicone	DC series	Dow Corning	Silicone additives to improve flow.
Plasticizers	Chlorinated paraffins	Cereclor®	Ineos	Used in solvent based paints as a plasticizer, but also have flame retardant properties.
Plasticizers	DINCH	Hexamoll DINCH®	BASF	Phthalate-free plasticizer.
Plasticizers	Phosphate (T CPP, TEP, TBP, TIBP, TBEP)	Phosphates	Various	Used in aqueous based paints such as emulsions to improve the loading of the formulation and easier handling. Control of high ph and high ionic concentration can be improved with phosphates. Used as flame retardant.
Thickeners	Acrylate base Alkali swellable emulsion (ASE)	Texipol®	Scott Bader	Anionic inverse emulsion thickener for water based caulks, adhesives & sealants, textured coatings, wall-paper pastes.
Thickeners	Hydrophobically modified ASE (HASE)	Texycril®	Scott Bader	Alkali soluble thickener.
Thickeners	Organoclay	BK series	Feng Hong	Rheological additives bases on organoclay for solvent borne.
Thickeners	Acrylate base Alkali swellable emulsion (ASE)	Isol® AS	Ionic Solutions	All ase thickeners exhibit controlled shear thinning behavior and fast viscosity recovery after shear, which makes this range very versatile as the main thickener for a wide variety of moderate to high PVC paints, and other highly filled, effect coatings.
Thickeners	Hydrophobically modified ASE (HASE)	Isol® AT	Ionic Solutions	The viscosity developed in the coating through asso-ciation is generally less shear thinning than ase types.
Wax	Carbauna / paraffin		Various	Reduce viscosity in holt melt adhesive, control open time, use as modifier in bitumen.





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