

COATING RESINS

HYDRO SYSTEM

STOVING POLYESTER RESINS

Mäder Reference	NVC (%)	Volatile	Type	Viscosity (mPas)	Properties
PLUSAQUA V 350, 43% WA / DMM	41,0 – 45,0	Water / DMM	Saturated Polyester	500 – 1 500 @ 20°C	High hardness, high elasticity and high gloss. Very good adhesion to metal substrates. Recommended for thermosetting coatings especially for general industrial applications and packaging coating.
PLUSAQUA V 363, 80% BG	78,0 – 82,0	Butyl Glycol	Saturated Polyester	40 000 – 50 000 @ 20°C	High gloss, good elasticity, hardness and exterior durability. Recommended for can & coil coating.
PLUSAQUA V 389, 70% BG	68,0 – 72,0	Butyl Glycol	Saturated Polyester	20 000 – 30 000 @ 20°C	High hardness, high elasticity and high gloss. Very good adhesion to metal substrates. Recommended for thermosetting coatings especially for general industrial applications and packaging coating.
PLUSAQUA V 470, 75% BG	73,0 – 77,0	Butyl Glycol	Saturated Polyester	6 000 – 10 000 @ 20°C	High gloss and good hardness. Very good adhesion on glass and dish-washer resistance. Recommended for thermosetting coating for glass. Suitable for coating with direct food contact (only for non-alcoholic stuff).
PLUSAQUA V 483, 60% water/DMM	58,0 - 62,0	Water / DMM	Saturated aliphatic Polyester	20 000 – 40 000 @ 20°C	Very high gloss and good hardness. Very good adhesion on glass. Excellent body and brillance. Recommended for thermosetting coating for glass.
PLUSAQUA V 494, 42% WA	40,0 – 44,0	Water	Saturated Polyester	300 – 1 500 @ 20°C	Good weather resistance. Used for solvent free thermosetting primer and top coat with high gloss, high hardness and very good elasticity. Can be used for primer with very good adhesion on alumina and steel substrates.
PLUSAQUA V 667, 42% WA	40,0 – 44,0	Water / Butyl Glycol	Polyester-acrylic hybrid	50 - 300 @ 20°C	Recommended for coatings with very high gloss, good flexibility, hardness and exterior durability. Can be used for metal base and top coat. Suitable for 2 component PUR coating as well.
PLUSAQUA V 476, 60% WA / BG	58,0-62,0	Water / Butyl Glycol	Saturated Polyester	30000 – 50000 @ 20°C	High gloss, very good flexibility, good adhesion on glass substrates

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COATING RESINS

HYDRO SYSTEM

POLYESTER RESINS – 2K SYSTEM

Mäder Reference	NVC (%)	Volatile	% OH (solid)	Type	Viscosity (mPas)	Properties
PLUSAQUA V 483, 60% water/DMM	60	Water / Progylde DMM	4,1	Saturated aliphatic Polyester	20 000 – 40 000 @ 20°C	Recommended for 2 component PUR top coat with good weather and chemical resistance, high gloss and excellent appearance. Suitable for highly durable top and clear coat, mainly for glass coatings.
PLUSAQUA V 614, 100%	100	/	4,0	Saturated Polyester	8 000 – 13 000 @ 20°C	Recommended for 2 component PUR top coat with « soft touch » effect. Also used as co-binder for elastification and for increasing open time.
PLUSAQUA V 619, 100%	100	/	10,0	Saturated Polyester	5 000 – 10 000 @ 20°C	High chemical resistance. Recommended for 2 component PUR top coat on plastic substrates.
PLUSAQUA V 667, 42% WA	40,0 – 44,0	Water / Butyl Glycol	4,0	Polyester-acrylic hybrid	50 - 300 @ 20°C	Recommended for 2 component PUR top coat with very good weather and chemical resistance, high gloss and excellent appearance. Good performances in metallic coating.
PLUSAQUA V 688, 80% DMM	78,0 – 82,0	Progylde DMM	4,1	Saturated Polyester	200 000 – 400 000 @ 20°C	Recommended for 2 component PUR top coat with excellent gloss and appearance, good weather and chemical resistance (road transportation). Can be combined with other resins to increase the open time.
PLUSAQUA V 688, 38% WA	36,0 – 40,0	Water	4,2	Saturated Polyester	500 – 5 000 @ 20°C	Recommended for 2 component PUR top coat with excellent gloss and appearance, good weather and chemical resistance. Suitable for public transportation and ACE applications. Can be combined with other resins to increase the open time.
PLUSAQUA V 695, 42% WA	40,0 – 44,0	Water	4,0	Aliphatic Polyester-acrylic hybrid	50 - 300 @ 20°C	Recommended for 2 component PUR top coat with excellent weather and chemical resistance, high gloss and excellent appearance. Suitable for highly durable top and clear coat.

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COATING RESINS

HYDRO SYSTEM

AIR DRYING ALKYD RESINS

Mäder Reference	NVC (%)	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
PLUSAQUA P 722, 75% BG / SBUT	73,0 – 77,0	Butyl Glycol / Sec- Butanol	30	Soya	15 000 – 25 000 @ 20°C	Alkyd resin for air and accelerated drying paint with high gloss, good hardness and durability. Recommended for metal and wood substrates. General applications for top coat and primer.
PLUSAQUA P 741, 38% WA	36,0 – 40,0	Water	68	Fatty Acids	Pseudoplastic behaviour	Alkyd resin used in matt wall and ceiling paint, solvent free and low yellowing.
PLUSAQUA P 755, 42% WA	40,0 – 44,0	Water	28	Fatty Acids	50 - 200 @ 25°C	Alkyd-acrylic hybrid resin used in matt wall and ceiling paint, solvent free and low yellowing. Good stain blocking properties and very good adhesion on different mineral substrates.

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COATING RESINS

HYDRO SYSTEM

STOVING ALKYD RESINS

Mäder Reference	NVC (%)	Volatile	% Oil	Oil	Viscosity (mPa.s)	Properties
PLUSAQUA P 38, 75% BG	73,0 – 77,0	Butyl Glycol	38	Soya	15 000 – 25 000 @ 20°C	Good hardness. Alkyd resin for baking enamels, water-reducible primers and top coats with solvent content less than 10%. Recommended for General Industry and Drum Coating.
PLUSAQUA P 383, 70% BG	68,0 – 72,0	Butyl Glycol	38	Soya	3 000 – 8 000 @ 20°C	Good hardness. Alkyd resin for baking enamels, water-reducible primers and top coats with solvent content less than 15%. Recommended for General Industry and Drum Coating.
PLUSAQUA P 391, 80% WA / BG	78,0 – 82,0	Water / Butyl Glycol (18:2)	38	Soya	30 000 – 60 000 @ 20°C	Good hardness, High gloss. Alkyd resin for baking enamels, water-reducible primers and top coats with solvent content less than 2%. Recommended for General Industry and Drum Coating.
PLUSAQUA P 380, 80% WA	78,0 – 82,0	Water	38	Soya	40 000 – 80 000 @ 20°C	Good hardness, High gloss. Alkyd resin for baking enamels, water-reducible primers and top coats without solvent. Recommended for General Industry and Drum Coatings.
PLUSAQUA KL-405/269, 60% WA / BG	58,0 – 62,0	Water / Butyl Glycol (35:5)	38	Soya	5 000 – 10 000 @ 20°C	Good hardness, High gloss. Alkyd resin for baking enamels, water-reducible primers and top coats with solvent content less than 5%.

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COATING RESINS

SOLVENTBORNE RESINS

SHORT OIL OXIDISING ALKYD RESINS

Mäder Reference	% Biobased content on solid 	NVC %	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
PLUSOL S 27 S, 60% XYL	27	60	Xylene	27	Soya	2500 - 4000 @ 25°C	High quality drying alkyd for primers & topcoats, both air dry and stoving, good build.
PLUSOL S 30 S, 60% XYL	30	60	Xylene	30	Soya	4000 - 5500 @ 20°C	General purpose fast air dry and stoving systems.
PLUSOL S 30 04, 60% XYL	30	60	Xylene	30	Soya	10000-15000 @20°C	General purpose fast air dry and stoving systems
PLUSOL S 35 S, 75% XYL	35	75	Xylene	35	Soya	3600 - 9800 @ 25°C	High solids air drying primers and topcoats.
PLUSOL S 36 S, 60% XYL	36	60	Xylene	36	Soya	typical 8000 @ 25°C	Stoving finishes, economical, medium viscosity.
PLUSOL S 40 S, 75% BUTAC	40	75	Butyl acetate	40	Soya	4000 - 6000 @ 20°C	NC plasticizers & pre-lacquers for IWF.
PLUSOL L 47 S, 60% XYL	47	60	Xylene	47	Linseed / Tung	1100 - 2100 @ 25°C	General purpose industrial stoving finishes and metal primers.
PLUSOL KL648/8, 60% XYL	40	60	Xylene	40	Soya	4500 - 6000 @ 20°C	Mostly used for primers and industrial finishes.

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COATING RESINS

SOLVENTBORNE RESINS

MEDIUM OIL OXIDISING ALKYD RESINS

Mäder Reference	% Biobased content on solid 	NVC %	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
PLUSOL T 47 S, 55% WS/XYL	47	55	WS/Xylene	47	TOFA	4300 - 5500 @ 25°C	Air drying & stoving Industrial finishes.
PLUSOL S 50 S, 60% WS/XYL	50	60	WS / Xylene	50	Soya	Reduced viscosity in 50% WS	Good weather resistance and good exterior durability. Recommended for air drying decorative paints and primers.
PLUSOL T 50 S, 55% WS	50	55	Aromatic WS	50	TOFA	13000 - 18000 @ 20°C	Good chemical resistance, good color retention. Recommended for general industry (agricultural machinery, industrial lacquers).
PLUSOL T 50 S, 65% XYL / SOLV 100	50	65	Xylene / S100	50	TOFA	8000 - 11000 @ 20°C	Non yellowing. Good weather resistance. Recommended for industrial top coats (transport finishes).
PLUSOL T 50 S, 70% XYL	50	70	Xylene	50	TOFA	19000 - 23000 @ 20°C	Non yellowing. Fast drying. Good chemical and weather resistance. Recommended for general industry (transport finishes, industrial lacquers).
PLUSOL T 50 S, 70% WD	50	70	WS type D40	50	TOFA	29000 - 35000 @ 20°C	Suitable for fast drying primers and paints with good gloss retention. Recommended for architectural / decorative paints.
PLUSOL P 51 S, 60% WS	51	60	Aromatic WS	51	Soya / TOFA	12000 - 16000 @ 20°C	Good chemical resistance. Good recoatability and excellent durability. Recommended for air dry coatings and brush applied primers and top coats.
PLUSOL L 53 S, 50% WD	53	50	WS type D40	53	Linseed	5000 - 8000 @ 20°C	Good chemical resistance. High gloss. Good through dry. Recommended for air dry coatings and brush applied coatings. Application include general metal coatings.

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COATING RESINS

SOLVENTBORNE RESINS

LONG OIL OXIDISING ALKYD RESINS

Mäder Reference	% Biobased content on solid 	NVC %	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
PLUSOL T 61 S, 65% WD	61	65	WS type D40	61	TOFA	1700 - 2300 @ 25°C	Flexible polymer for exterior paint and varnish systems requiring maximum extensibility and resistance to age.
PLUSOL T 61 S, 70% WDA	61	70	WS type D60	61	TOFA	1000 - 2000 @ 25°C	Flexible polymer for exterior paint and varnish systems requiring maximum extensibility and resistance to age.
PLUSOL S 65 S, 70% WD	65	70	WS type D40	65	Soya	6000 - 8000 @ 20°C	Decorative paints & varnishes.
PLUSOL S 65 S, 70% WDA	65	70	WS type D60	65	Soya	6000 - 8000 @ 20°C	Architectural/Decorative paints and varnishes.
PLUSOL T 69 S, 85% WD	69	85	WS type D40	69	TOFA	3500 - 4500 @ 25°C	Low VOC for decorative paints & varnishes.
PLUSOL S 75 S, 90% WDA	75	90	WS type D60	75	Soya	1500 - 2500 @ 25°C	Low VOC Architectural/Decorative paints and varnishes, good drying, int & ext applications.
PLUSOL S 80 S, 100%	80	100	None	80	Soya	2000 - 3000 @ 20°C	Self emulsifying alkyd resin for combination with acrylic, styrene acrylic and vinyllic emulsions.
PLUSOL S 83 S, 100%	83	100	None	83	Soya	4000 - 5000 @ 20°C	100% solids Co-binder for decorative paints & varnishes, suitable for wood stains.
PLUSOL P 84 S, 100%	84	100	None	84	Sunflower	600 - 1000 @ 25°C	Penetrating primers, diluent alkyd for VOC adjustment with low yellowing.

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COATING RESINS

SOLVENTBORNE RESINS

2 PACK HYDROXY FUNCTIONAL POLYESTER RESINS

Mäder Reference	NVC %	Volatile	% OH	Structure	Viscosity (mPas)	Properties
PLUSODUR V 710 S, 70% XYL	70	Xylene	2.0	Branched	7000 - 1000 @ 20°C	Manufacturing of industrial coatings with high solids content.
PLUSODUR V 725 S, 70% BUTAC	70	Butyl acetate	4.2	Branched	5000 - 7000 @ 25°C	High compatibility with acrylics . Good flow & high gloss. Ideal as grinding media for acrylics.
PLUSODUR V 730 S, 65% PMA	65	Methoxy propyl acetate	7.7	Branched	15000 - 20000 @ 20°C	High chemical resistance, anti graffiti coatings.
PLUSODUR V 735 S, 75% XYL	75	Xylene	3.7	Branched	2800 - 3500 @ 25°C	2k..high solids with long pot-life..Used with NC lacquers for sealers (20% Biobased content on solid).
PLUSODUR V 745 S, 100%	100	None	6.1	Linear	800 - 1100 @ 25°C	Modifying resin to improve build, VOC, application properties such as flow, gloss & DOI. Excellent wetting, improved adhesion, chemical & salt spray resistance. High flexibility (even down to -25OC) & improved chip resistance. Excellent compatibility with acrylics & polyesters.
PLUSODUR V 755 S, 70% PMA	70	Methoxy propyl acetate	2.2	Slightly branched	6500 - 9000 @ 25°C	Military coatings.
PLUSODUR V 820 S, 80% BUTAC	80	Butyl acetate	4.3	Branched	2000 - 3000 @ 20°C	2 pack finishes, automotive plastic coatings.
PLUSODUR KL-655/10, 100%	100	none	4.3	Linear	4000 - 6000 @ 20°C	Higher Tg version of PLUSODUR V 745. Harder resin but also higher viscosity. Lower NCO requirement.
PLUSODUR KL-655/10 S, 80% BUTAC	80	Butyl acetate	4.3	Linear	4000 - 6000 @ 20°C	Higher Tg version of PLUSODUR V 745. Harder resin but also higher viscosity. Lower NCO requirement.

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COATING RESINS

SOLVENTBORNE RESINS

EPOXY ESTER RESINS

Mäder Reference	% Biobased content on solid 	NVC %	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
PLUSOL ET 35 S, 60% OXYL	35	60	Ortho-Xylene	35	TOFA	2300 - 3000 @ 25°C	Air drying and stoving coatings (Road marking paints).
PLUSOL ED 40 S, 60% XYL	40	60	Xylene	40	DCO	1600 - 2200 @ 25°C	Air dry & stoving primers. Good adhesion & high chemical resistance.
PLUSOL EL 40 S, 60% XYL	40	60	Xylene	40	Rosin / TOFA	3000 - 5000 @ 20°C	Very fast air dry with good chemical & abrasion resistance.
PLUSOL ET 40 S, 70% EP	40	70	Ethoxy propanol	40	TOFA	8000 - 12000 @ 20°C	Anticorrosive primers and finishes with high chemical resistance.
PLUSOL ET 42 S, 60% XYL	42	60	Xylene	42	TOFA	2500 - 3500 @ 20°C	Low rosin content, air dry & stoving antio primers used for Zn.
PLUSOL ED 53 S 60% WD	53	60	WS type D40	53	TOFA	3000 - 4000 @ 20°C	Air dry antio primers in aliphatic solvents.

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COATING RESINS

SOLVENTBORNE RESINS

SILICONE MODIFIED RESINS

Mäder Reference	% Biobased content on solid 	NVC %	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
PLUSOL D 23 SIL S, 60% XYL	23	60	Xylene	30	DCO	3000 - 4000 @ 20°C	Used where a high resistance to corrosion temperature & UV light is essential
PLUSOL L 29 SIL S, 41% XYL	29	41	Xylene	25	Linseed	250 - 400 @ 25°C	Fast air-drying or stoving. Used where a combination of corrosion & heat resistance are required
PLUSODUR ES 40 S, 60% XYL	40	60	Xylene	40	Linseed	600 - 1000 @ 20°C	For heat & chemical resistance, coatings for pipelines, tanks, chemical plants, roads, tankers
PLUSOL P 43 SIL S, 60% WD	43	60	WS type D40	30	TOFA	1500 - 2000 @ 20°C	High durability exterior & maintenance finishes
PLUSOL T 51 SIL S, 70% WD	51	70	WS type D40	27	TOFA	6000 - 8000 @ 20°C	Manufacture of paints for the buildings and the navy with good properties of remarkable properties of weather resistance and temperature

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COATING ADDITIVES

SOLVENT SYSTEM

SOLVENT ADDITIVES

Mäder Reference	Product Information	Type	NVC (%)	Volatile	Properties
PLUSOLIT H-PD	Adhesion promoter	Polyester resin	78,0 - 82,0	n-Propanol / Proglyde DMM (2:1)	Improves adhesion to metal substrates and film flexibility. No influence on weather resistance. Very good compatibility with wide range of resins. Very good performance in packaging coatings. Suitable for 2-pack PUR coating and baking enamel. Recommended addition level is from 1 to 3 % on total formulation.
PLUSOLIT WH, 60% Xyl	Adhesion promoter	Polyester resin	58,0 - 62,0	Xylene	No influence on weather resistance. Improves adhesion on metal substrates. Used for baking enamel. Recommended addition level is from 2 to 5 % on total formulation.
PLUSOLIT WH, 60% ButAc	Adhesion promoter	Polyester resin	58,0 - 62,0	Butyl Acetate	No influence on weather resistance. Improves adhesion on metal substrates. Used for baking enamel. Recommended addition level is from 2 to 5 % on total formulation.
PLUSOLIT KL-613/7, 60% Xyl	Adhesion promoter	Polyester resin	58,0 - 62,0	Xylene	Harder version of Plusolit WH. No influence on weather resistance. Improves adhesion on metal. Used for air drying and accelerated drying conditions. Recommended addition level is from 2 to 5 % on total formulation.
PLUSOLIT KP	Corrosion inhibitor	Epoxy Ester	69,0 - 73,0	Butyl Glycol	Improves corrosion protection. Can be post added or incorporated at any stage during production. Recommended amounts are 2 % on total formulation.
PLUSOLIT G Series	Texturing additive	Ultra high molecular weight Polyethylene	100	/	Very good abrasion and scratch resistance. Used for surface-texture effects. Average particle size from 26 µm to 168 µm.
PLUSOLIT D 3005 S	Wetting & dispersing agent	High molecular weight copolymer with pigment affinic groups	44,0 - 46,0	Xylene / Butyl Acetate / Methoxypropyl Acetate (3:1:1)	Additive for solvent based pigment concentrates.

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COATING ADDITIVES

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HYDRO ADDITIVES

Mäder Reference	Product information	Type	NVC (%)	Volatile	Properties
PLUSOLIT D 3001 S	Wetting & dispersing agent	High molecular weight copolymer with pigment affinic groups	39,0 – 41,0	Water	VOC free and solvent free. Additive for pigment concentrates without resins.
PLUSOLIT H-PD	Adhesion promoter	Polyester resin	78,0 – 82,0	n-Propanol / Progylde DMM (2:1)	Improves adhesion to metal substrates and film flexibility. No influence on weather resistance. Very good compatibility with wide range of resins. Very good performance in packaging coatings. Suitable for 2-pack PUR coating and baking enamel. Recommended addition level is from 1 to 3 % on total formulation.
PLUSOLIT KP	Corrosion inhibitor	Epoxy Ester	69,0 – 73,0	Butyl Glycol	Improves corrosion protection. Can be post added or incorporated at any stage during production. Recommended amounts are 2 % on total formulation.
PLUSOLIT KL-522/13	Corrosion inhibitor	Epoxy Ester	63,0 – 67,0	Hexyl Di-Glycol	Butyl Glycol free version of Plusolit KP. Improves corrosion protection. Can be post added or incorporated at any stage during production. Recommended amounts are 2 % on total formulation.
PLUSOLIT AG	Anti-yellowing agent	Anti-oxydant	18,0 – 22,0	Butyl Di-Glycol Acetate	Improves yellowing resistance. Recommended amount to add between 2 to 3 % on solid resin.
PLUSOLIT KS	Anti-blistering agent	Special Oils	92,0 – 96,0	Butyl Glycol	Avoids blistering of water-based baking enamel. Recommended amount to add between 3 to 5 % on solid resin.
PLUSOLIT G Series	Texturing additive	Ultra high molecular weight Polyethylene	100	/	Very good abrasion and scratch resistance. Used for surface-texture effects. Average particle size from 26 µm to 168 µm.

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COATING RESINS

SPECIALTIES

Mäder Reference	% Biobased content on solid 	NVC %	Volatile	% Oil	Oil	Viscosity (mPas)	Properties
<i>PHENOLIC MODIFIED RESINS</i>							
PLUSOL LV 37 S, 60% XYL	37	60	Xylene	37	Linseed / Tung	4000 - 8000 @ 20°C	Short oil alkyd resin Based on Linseed / Tung oil modified with phenolic and rosin. Very good corrosion resistance & rapid air drying.
<i>SATURATED POLYESTER RESINS</i>							
PLUSODUR AN 160	0	75	Ethyl acetate/ Butyl acetate (2/1)	0	/	3000 - 5000 @ 20°C	Non-yellowing saturated polyester resin. Recommended for NC coatings.
PLUSODUR KL 650/4, 60% SOLV150/BG	0	60	SOLV150/BG	0	/	2800 - 3800 @ 20°C	Coil Coatings.
<i>URETHANE ALKYD MODIFIES RESINS</i>							
PLUSOL S 63 US, 55% SHA	61	55	Solvesso 100	61	Soya	2000 - 6000 @ 20°C	Air drying industrial coatings and decorative paints.
<i>LIMED OIL</i>							
PLUSOL GL 96 F, 40% IPL	96	40	Isoparaffinic	96	Sunflower	15000 - 60000 @ 23°C	Recommended for stain blocking paints for interior renovation.
PLUSOL GL 96 S, 40% IPL	96	40	Isoparaffinic	96	Linseed	15000 - 60000 @ 23°C	Recommended for stain blocking paints for interior renovation.
<i>STYRENATED MODIFIED RESINS</i>							
PLUSOL PS 27 S, 50% XYL	27	50	Xylene	27	Linseed	6000 - 8000 @ 20°C	Air drying coatings.
<i>ALKYD EMULSION</i>							
PLUSEMUL BIO 026, 50% WA	98	50	Water	31	Soya	10 - 100 @ 23°C	Binder for low VOC matt or satin interior applications (wood, plaster).

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