prefere melamines

Amino Resins with LOW FREE FORMALDEHYDE

MAPRENAL®

RESIMENE®

MADURIT®

Prefere Resins – Snapshot

- 600 employees
- € 500 million turnover
- 14 manufacturing sites
- Capacity of about 600,000 mt

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prefere paraform

prefere phenolics

Prefere Melamines – Snapshot

- 140 employees
- € 130 million turnover
- 3 manufacturing sites

AUTOMOTIVE

Full range of high performing melamine resins for Automotive OEM, Wheel Coatings and Automotive Filtration Systems.
Highly etherified melamine resins available as liquid or powder resins (coated on a silica carrier) for the Tire Industry.

GENERAL INDUSTRIAL

Comprehensive portfolio of melamine and benzoguanamine crosslinkers suitable for Can and Container Coatings.
Waterborne melamine resins and additives for Paint, Paper and Textile (woven and nonwoven) applications.
Highly etherified melamine resins available as liquid or powder resins (coated on a silica carrier) for Technical Rubber goods.

CONSTRUCTION

Perfectly balanced selection of melamine resins used in the field of Coil Coatings (e.g., metal rooftops).

Waterborne resins and aligned additives (hardeners, wetting & release agents) for the Flooring and Furniture Industry (e.g., Laminate Flooring, Partitions, Edge bandings and Foil Coatings).

Benefits of Prefere's low Formaldehyde Amino Resins:

- Operational Safety
- Low Indoor Emissions
- Compliance with Storage Requirements

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MAPRENAL® and RESIMENE® for COATINGS

PRODUCT	Automotive	Can & Coil	Industrial	Foil	Wood	TYPE	NON-VOLATILES %	FREE FORMALDEHYDE %	BENEFIT / MAIN APPLICATION FIELD
RESIMENE 747 ULF	X	X	X	X		HMMM	> 98 [1]	**< 0.10**	**High solids, versatile crosslinker for water- and solventborne coatings**
MAPRENAL MF 900	X	X	X	X		HMMM	93 – 96	**< 0.50**	**Fully water soluble, automotive and foil coatings**
RESIMENE 755	X	X	X			Hexa-Me/nB	> 98 [1]	**< 0.10**	**More hydrophobic and flexible than R 747, for automotive and AED coatings**
RESIMENE CE-7504 ULF*	*X*	*X*	*X*			*Hexa-Me/iB*	*> 98* [1]	***< 0.10***	***Developmental, iso-butylated version of Resimene 755, for automotive and AED coatings***
RESIMENE 764	X	X	X		X	Hexa-Me/nB	> 98 [1]	**< 0.10**	**High butylation rate, more hydrophobic and flexible than R 755**
RESIMENE CE-7103	X	X	X		X	Hexa-Me/nB	> 98 [1]	**≤ 0.03**	**Low viscosity, for low temperature cure coatings on plastics and wood**
RESIMENE 741	X	X	X			Penta-Me	86 – 90 [1]	**≤ 0.40**	**Fully water soluble, W/B automotive base coats**
RESIMENE HM-2608 LF	X	X	X			Tetra-Me	88 – 92 [1]	**< 0.50**	**Fully water soluble, high reactivity, W/B automotive base and top coats**
RESIMENE AQ-2611		X	X	X		Tetra-Me	81 – 84	**< 0.30**	**Fully water soluble, for furniture foil coatings**
RESIMENE 720 LF	X	X	X			Tri-Me	74 – 78 [1]	**< 0.50**	**Similar to Resimene 717, fully water soluble, high reactivity**
RESIMENE AQ-7551	X	X	X	X	X	Tri-Me	75 – 80 [1]	**< 0.50**	**Fully water soluble, very high reactivity automotive and industrial coatings**

**Developmental product* ***based on lab data, not specified yet* *[1] Foil method. 45 min 45 °C*

MAPRENAL® and RESIMENE® for COATINGS

PRODUCT	Automotive	Can & Coil	Industrial	Foil	Wood	TYPE	NON-VOLATILES %	FREE FORMALDEHYDE %	BENEFIT / MAIN APPLICATION FIELD
RESIMENE CE-1057 LF	X	X	X			Tetra-Me/nB	74 – 80	**< 0.25**	**Low free formaldehyde, reactive coether resin**
RESIMENE CE-1053	X	X	X			Tetra-Me/nB	69 – 71	**< 0.50**	**Low viscosity, high reactivity in automotive coatings**
RESIMENE CE-1058	X	X	X			Tri-Me/nB	69 – 72	**< 0.50**	**More hydrophobic, higher flexibility than CE-1053**
MAPRENAL VMF 3935		X	X			Tri-Me/nB	69 – 71	**< 0.20**	**Very high reactivity, for industrial coatings**
MAPRENAL MF 612	X	X	X			Tetra-nB	68 – 72	**< 0.50**	**High reactivity and versatility for S/B automotive and industrial coatings**
MAPRENAL MF 613	X	X	X			Tetra-nB	69 – 73	**< 0.40**	**Less reactive but more flexible version of MF 612**
RESIMENE BM 5901	X	X	X			Tri-nB	74.5 – 77.5 [1]	**< 0.50**	**High reactivity, high solids for all types of S/B coatings**
RESIMENE CE-8824 ULF		X				BF, Tetra-Me/Et	> 98	**< 0.10**	**High flexibility and chemical resistance, for W/B and S/B packaging coatings**
MAPRENAL BF 987		X				BF, Tri-Me	72 – 76	**< 0.25**	**Methylated BF resin for W/B packaging coatings**
RESIMENE BF 892 ULF*		X				*BF, Di-nB*	*66 - 70*	***< 0.10***	***Developmental product, exceptionally low free FF, similar reactivity as BF 891***
MAPRENAL BF 891		X				BF, Di-nB	75 – 79	**< 0.50**	**High reactivity and chemical resistance, packaging coatings**

**Developmental product **based on lab data, not specified yet 1 Foil method. 45 min 45 °C*

MADURIT® and RESIMENE® for PAPER, TEXTILE and TIRE applications

PRODUCT	Paper	Textile	Tire	TYPE	NON-VOLATILES %	FREE FORMALDEHYDE %	BENEFIT / MAIN APPLICATION FIELD
RESIMENE 3520			X	HMMM	> 98	**≤ 0.15**	**High adhesion to steel and textile cords, high solids**
RESIMENE XT 911 ULF			X	HMMM	> 98	**< 0.10**	**High adhesion to steel and textile cords, high solids**
RESIMENE XT 926			X	HMMM[2]	63.5 – 66.5*	**< 0.10**	**As Resimene XT 911 ULF, powder form**
RESIMENE 3520 S-65			X	HMMM[2]	63.5 – 66.5*	**< 0.10**	**As Resimene 3520, powder form**
MADURIT XT 850		X		HMMM	48 – 52	**< 0.10**	**Fully water soluble, crosslinker for pigment fixation on textiles**
MADURIT MW 834	X			Methylated	75 – 77	**< 0.10**	**Fully water soluble, used in flexible edge bandings and furniture foils**
MADURIT MW 120 ULF	X	X		Methylated	74 – 76	**< 0.10**	**Fully water soluble, increases water resistance and stiffness in paper and textile applications**
MADURIT MW 116	X	X		Methylated	75 – 77	**< 0.40**	**Fully water soluble, higher reactivity than MW 120 ULF**
RESIMENE AQ-7551	X	X		Methylated	75 – 80	**< 0.50**	**Fully water soluble, very high reactivity**
MADURIT MW 168	X			Cationic MF-Resin	8.8 – 9.3	**< 0.10**	**Coagulation agent for industrial waste water purification, wet strength agent for paper manufacture**

** active resin content*

[2] powder, absorbed on a silica carrier

Abbreviation / Description			
HMMM	Hexamethoxymethylmelamine	**LF**	Low Formaldehyde
BF	Benzoguanamine-Formaldehyde	**Me**	Methanol, Methyl-
CE	Co-Ether	**MF**	Melamine-Formaldehyde
ET	Ethanol, Ethyl-	**ULF**	Ultra Low Formaldehyde
iB	Isobutanol, Iso-Butyl-	**nB**	n-Butanol, n-Butyl-

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