

# WORLD OF WAXES

*mju:wax*<sup>®</sup>

micronised waxes

**VISCOCER**<sup>®</sup>

oxidised waxes

**ADDIMER**<sup>®</sup>

wax additives  
and lubricants





## Company introduction

**ceronas GmbH & Co. KG** is a producer and developer of micronised wax additives, selling micronised waxes under the brand name **mju:wax®**, oxidised **VISCOCER®** waxes and polymers as well as innovative additives like ionomers, modified polyester waxes and functionalised **ADDIMER®** wax blends. **ceronas** additives are used in a broad field of industrial applications like coatings, powder coatings, printing inks, lacquers, plastics, masterbatches, release agents, lubricants, wax emulsions, wax dispersions and more. In 2018 **ceronas** moved into the new headquarters located in Kirchberg with strongly increased production capacities for micronisation and milling. The micronised **mju:wax®** additives are manufactured on innovative mills with unique design. **ADDIMER®** und **VISCOCER®** additives are manufactured on new and further improved reactors. Located at the new site is the administration as well as a research and developing laboratory with a connected application laboratory. Our laboratory is equipped with state of the art analytical instruments to determine particle size, particle morphology and surface.

The product development of **ceronas** as well as the backward integration benefits from the cooperation with our partner company **euroceras** located in Poland. Basic wax raw material like HDPE-, LDPE-, copolymer- and polyesterwaxes are custom made by **euroceras**. We guarantee our customers reliable supply, longterm cooperation, quality and flexibility. With our state of the art mills and reactors we are able to offer a broad portfolio of wax additives as well as tailor made products to support our customers product improvements and new developments.

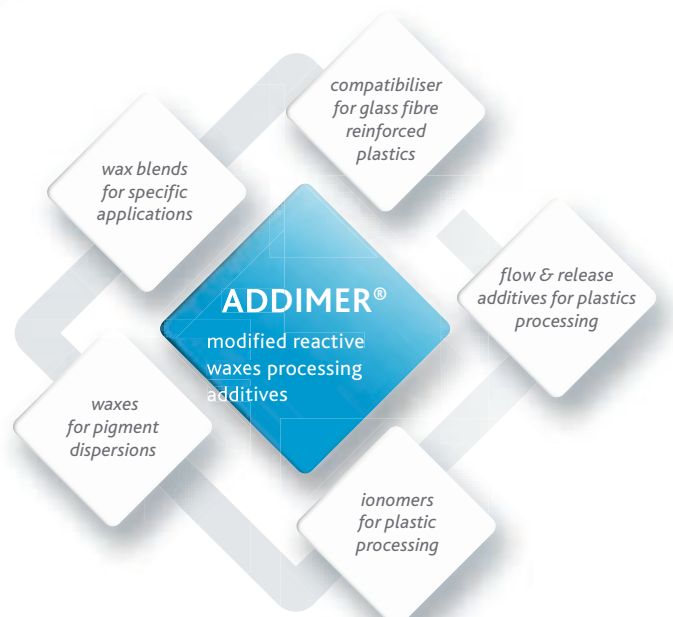
## Unternehmensvorstellung

**ceronas GmbH & Co. KG** entwickelt, produziert und vermarktet mikronisierte Wachsadditive unter dem Markennamen **mju:wax®**, oxidierte Wachse und Polymeroxide unter dem Markennamen **VISCOCER®** sowie innovative Wachsadditive wie Ionomere, modifizierte Polyesterwachse und funktionelle Wachsblends unter dem Markennamen **ADDIMER®**. **ceronas** Additive finden breite industrielle Anwendung in Lacken und Pulverlacken, Farben und Druckfarben, Kunststoffen, Masterbatches, Trennmitteln, Schmierstoffen, Wachsemulsionen und -dispersionen sowie zahlreichen weiteren Anwendungen.

**ceronas** hat im Jahr 2018 einen neuen Standort in Kirchberg mit deutlich höheren Produktionskapazitäten für Vermahlung und Oxidation bezogen. Dort werden die mikronisierten **mju:wax®** Additive auf Mühlen neuester Bauart hergestellt sowie die **ADDIMER®** und **VISCOCER®** Additive auf neuen, weiter verbesserten Reaktoren gefertigt. Der Standort umfasst außerdem die Verwaltung sowie ein Labor zur Forschung und Entwicklung mit umfangreicher Charakterisierung und Analyse von Partikelgröße, -form und -oberfläche sowie anwendungstechnischen Prüfungen. **ceronas** profitiert bei der Produktentwicklung und Rückwärtsintegration von der Kooperation mit dem Partnerunternehmen **euroceras** in Polen, so dass wesentliche Wachsrohstoffe wie HDPE, LDPE-, Copolymer und Polyesterwachse maßgeschneidert für **ceronas** gefertigt werden. Wir sichern unseren Kunden eine höchstmögliche Liefersicherheit, Zuverlässigkeit, Qualität und Flexibilität zu. Mit unserem umfangreichen Prozessequipment sind wir in der Lage unseren Kunden projektbezogene und maßgeschneiderte Lösungen für die Neuentwicklung oder Optimierung ihrer Produkte anzubieten.

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# mju:wax® micronised waxes

product name	chemical characterisation	acid number [mg KOH/g]	drop point [°C]	density [g/cm <sup>3</sup> ] at 23°C	particle size d50 [µm]	particle size d99 [µm]
<i>mju:wax</i> ® 1310	wax compound with PTFE	0	130	1.07	9.0	22
<i>mju:wax</i> ® 2000	FT wax	0	114	0.95	6.5	16
<i>mju:wax</i> ® 2002 FN/2002 EFN	synthetic/PE wax compound	0	110	0.95	8.0/ 6.5	22/18
<i>mju:wax</i> ® 2004	modified PE wax	0	135	0.97	10.0	26
<i>mju:wax</i> ® 2005	mod. synthetic wax	5	112	0.96	8.0	20
<i>mju:wax</i> ® 2110	synthetic wax compound	0	115	0.95	9.0	23
<i>mju:wax</i> ® 2200/2200 EF	FT wax	0	108	0.95	8.0/ 5.0	19/14
<i>mju:wax</i> ® 2300/2300 CC*	PE wax compound with PTFE	0	115	1.07	6.5/ 4.5	15/12
<i>mju:wax</i> ® 2301/2301 CC*	PE wax compound with PTFE	0	115	1.02	6.5/ 4.5	17/12
<i>mju:wax</i> ® 2305	wax compound with PTFE	8	108	1.05	6.5	15
<i>mju:wax</i> ® 2400/2400 EF	PE/amide wax compound	4	142	0.98	6.0/ 5.0	19/15
<i>mju:wax</i> ® 2450	PE wax compound	2	138	0.97	7.0	20
<i>mju:wax</i> ® 2505	synthetic wax compound	13	115	1.05	8.0	19
<i>mju:wax</i> ® 2530	wax compound with PTFE	1	115	1.01	8.0	21
<i>mju:wax</i> ® 2594	wax compound	4	118	1.04	7.0	20
<i>mju:wax</i> ® 2615	wax compound	5	112	0.95	7.5	21
<i>mju:wax</i> ® 2739/2739 CC*	PE/PTFE/carnauba wax compound	3	115	1.04	5.5/ 4.5	17/14
<i>mju:wax</i> ® 2994	wax compound	4	139	0.95	5.5	20
<i>mju:wax</i> ® 4000	amide wax	7	142	1.00	6.5	20
<i>mju:wax</i> ® 4253	wax compound with PTFE	4	141	1.04	5.0	16
<i>mju:wax</i> ® 4810	PP wax compound	3	155	0.96	7.0	17
<i>mju:wax</i> ® 5420	PE/amide wax compound	11	138	1.04	7.0	20
<i>mju:wax</i> ® 7200/7200 CC*	PE/carnauba wax compound	3	114	0.97	6.5/4.5	16/12
<i>mju:wax</i> ® 7900	synthetic wax	14	66	0.97	7.0	16
<i>mju:wax</i> ® 7902	polyester wax	40	70	0.97	7.5	15
<i>mju:wax</i> ® 8001	PP wax	0	152	0.90	8.5	19
<i>mju:wax</i> ® 8050	PP wax	0	152	0.90	13	32
<i>mju:wax</i> ® 8050/3	PP wax	0	152	0.90	22	85
<i>mju:wax</i> ® 8400/ 8400 EF	wax compound	3	146	0.96	7.0/ 5.5	23/15
<i>mju:wax</i> ® 9200	FT wax compound	0	102	0.90	5.0	15
<i>mju:wax</i> ® 9250	FT wax compound	6	100	0.91	5.5	17
<i>mju:wax</i> ® 9524	wax compound	2	119	1.03	8.5	20

\* = CC grades: especially for can/coil coating

water based	solvent based	can/coil-coatings	industrial coatings	wood coatings	inks	OPV's	UV-lacquers/lacquers	powder coatings	plastics	product name
	•	•	•	•	•		•	•		<i>mju:wax</i> ® 1310
	•	•	•	•	•			•		<i>mju:wax</i> ® 2000
(•)	•				••	•				<i>mju:wax</i> ® 2002 FN/2002 EFN
	•				•					<i>mju:wax</i> ® 2004
•			•	•	•	•				<i>mju:wax</i> ® 2005
	•			•	•		•			<i>mju:wax</i> ® 2110
(•)	•	•			••			•		<i>mju:wax</i> ® 2200/2200 EF
	•	•	• (•)	•	•			•		<i>mju:wax</i> ® 2300/2300 CC*
	•	•	•	•	•			•		<i>mju:wax</i> ® 2301/2301 CC*
•			•	•	•					<i>mju:wax</i> ® 2305
	•		•	•	•		•	•		<i>mju:wax</i> ® 2400/2400EF
•	•			•		•	•			<i>mju:wax</i> ® 2450
•				•		•				<i>mju:wax</i> ® 2505
	•		•				•			<i>mju:wax</i> ® 2530
•			•	•	•					<i>mju:wax</i> ® 2594
•			•	•	•	•				<i>mju:wax</i> ® 2615
•	•	•	••	••	•	•		•		<i>mju:wax</i> ® 2739/2739 CC*
	•		•	•						<i>mju:wax</i> ® 2994
(•)	•			•	•			•	•	<i>mju:wax</i> ® 4000
	•		•				•			<i>mju:wax</i> ® 4253
	•		•	•	•		•	•		<i>mju:wax</i> ® 4810
•			•	•						<i>mju:wax</i> ® 5420
•	•	•	••	••	•	•				<i>mju:wax</i> ® 7200/7200 CC*
•			•	•			•		•	<i>mju:wax</i> ® 7900
•	•		••	••		••	•			<i>mju:wax</i> ® 7902
	•		•	•				•	•	<i>mju:wax</i> ® 8001
	•		•	•				•		<i>mju:wax</i> ® 8050
	•		• (•)					•		<i>mju:wax</i> ® 8050/3
	•		•	•			•	•		<i>mju:wax</i> ® 8400/ 8400 EF
	•		•	•	•			•		<i>mju:wax</i> ® 9200
•			•	•						<i>mju:wax</i> ® 9250
•	•		• (•)	• (•)	•	•	•			<i>mju:wax</i> ® 9524

(•) = solvent based (•) = water based (•) = 100% system

# VISCOCER® functionalised waxes / ADDIMER® wax lubricants and additives

product name	chemical characterisation	main applications
<i>Oxidised waxes and polymers</i>		
VISCOCER® 1017	oxidised HDPE wax	water based emulsions; modification of hot melt and bitume; release agent
VISCOCER® 2016	oxidised LDPE wax	lubricant for PVC; water based emulsions; modification of hot melts
VISCOCER® 2216	oxidised LDPE wax	lubricant for PVC; water based emulsions
VISCOCER® 3010	oxidised synthetic wax	water based mould release emulsions; lubricant and dispersing additive for PVC and plastics
VISCOCER® 3020	oxidised synthetic wax	water based mould release emulsions; lubricant and dispersing additive for PVC and plastics
VISCOCER® 3030	oxidised synthetic wax	water based mould release emulsions; lubricant and dispersing additive for PVC and plastics
VISCOCER® 816 Fine Powder	oxidised polyolefin	Fusion control and metal release in PVC applications; water based emulsions
<i>Polyester waxes and modified polyester waxes</i>		
ADDIMER® 592	polyester wax	flow improvement and pigment dispersion in polar and non polar plastics; compatibiliser for fibres and fillers; flow and levelling additive in powder coatings
ADDIMER® 640	synthetic polyester wax	dispersing additive for technical plastics, compatibilizer for fibers and fillers, improved flow properties and gloss
ADDIMER® 677	silicone modified polyester wax	release agent for plastics processing and in emulsions
ADDIMER® 695	calcium saponified polyester wax	flow improvement and release agent in plastics processing
ADDIMER® 696	calcium saponified polyester wax	release agent and flow improvement in plastics processing
ADDIMER® 697	calcium saponified polyester wax	release agent in plastics processing; release agent for thermotransfer applications
<i>Saponified synthetic waxes</i>		
ADDIMER® 423	lithium saponified synthetic wax	mould release and polishes, solvent- and waterborne, sizing agent
<i>Maleic acid anhydride grafted waxes</i>		
ADDIMER® 630R	maleic acid anhydride grafted wax	wetting and compatibilising of wood fibres in PE and PVC based WPC
ADDIMER® 840R	maleic acid anhydride grafted PP wax	coupling, wetting and dispersion in glass fibre filled, inorganic filled and wood fibre filled PP compounds; emulsions for glass fibre sizing

acid number [mg KOH/g]	drop point [°C]	melt viscosity [mPa*s] (at T)	density [g/cm <sup>3</sup> ] at 23°C	penetration [mm*10 <sup>-1</sup> ] at 25°C	colour and supply form	product name
17	116	1000 (140°C)	0.97	1	almost white flakes*	VISCOCER® 1017
16	102	800 (140°C)	0.94	4	almost white flakes*	VISCOCER® 2016
16	100	230 (140°C)	0.94	6	almost white flakes*	VISCOCER® 2216
10	106	20 (120°C)	0.96	1	almost white flakes*	VISCOCER® 3010
20	104	20 (120°C)	0.96	3	almost white flakes*	VISCOCER® 3020
30	103	20 (120°C)	0.96	4	almost white flakes*	VISCOCER® 3030
16	135 (DSC)	8000 (160°C)	0.98	< 1	white powder	VISCOCER® 816 Fine Powder
11	60	550 (120°C)	0.97	5	white prills	ADDIMER® 592
40	70	150 (120°C)	0.97	3	white	ADDIMER® 640
40	68	200 (120°C)	0.98	8	almost white powder	ADDIMER® 677
12	75	200 (120°C)	0.97	4	pale yellowish flakes*	ADDIMER® 695
8	87	160 (120°C)	0.98	4	yellowish flakes*	ADDIMER® 696
5	90	140 (120°C)	0.98	3	yellowish flakes*	ADDIMER® 697
13	110	230 (140°C)	0.94	2	pale yellowish flakes*	ADDIMER® 423
30	108	40 (120°C)	0.97	< 1	almost white flakes*	ADDIMER® 630R
40	152	800 (170°C)	0.93	< 1	pale yellowish flakes*	ADDIMER® 840R

\* = also available as „Powder“: particle size d50 ~ 500 µm

# ADDIMER® wax lubricants and additives

## Ionomers

product name	product description	Appearance	viscosity [mPa*s] (at T)	major field of application
ADDIMER® 126	sodium ionomer	white to off white powder	~7600 (120°C)	internal lubricant / nucleating agent in plastics
ADDIMER® 156	calcium ionomer	white to off white powder	~2800 (150°C)	internal lubricant / nucleating agent in plastics
ADDIMER® 163	zink ionomer	white to off white powder	~3500 (190°C)	internal lubricant / nucleating agent in plastics

## Additives for plastics processing

product name	chemical function	main applications	colour and supply form
ADDIMER® 901N	nucleating additive for PP	synergistic working additive based on a nano-scale nucleating agent polymerised in a flow improving additive	white powder
ADDIMER® PO 49	MFI increasing additive for PP	additive to increase/adjust the MFI of PP (e.g. recycled) for injection moulding application, provides additionally high surface gloss and improved flow properties	off white granules
ADDIMER® RC 75	processing additive for technical plastics	additive to improve flow properties and mould release in the processing of engineering plastics (e.g. PA); provides high surface gloss	off white granules

## Functionalised wax specialties

product name	chemical characterisation	main applications	acid value [mg KOH/g]	drop point [°C]	viscosity [mPa*s] (at T)	colour and supply form
ADDIMER® 682	phosphonate functionalised wax	paste building additive in lubricant formulations. Dispersing additive for inorganic fillers, lubricant in plastic processing by adsorption on metal surface.	14	72	50 (120°C)	white

## Wax compound for release agents

product name	chemical characterisation	main applications	acid value [mg KOH/g]	drop point [°C]	viscosity [mPa*s] (at T)	colour and supply form
ADDIMER® 221N	wax compound	stabiliser for paraffins and microcrystalline waxes in solvent borne formulations  release agent	10	107	20 (120°C)	white flakes

# NEW! ADDIMER® PO49

## Peroxide containing additive for the polypropylene processing

### Product description

High efficient additive to increase the MFI of polypropylene by an uniform radical depolymerisation. ADDIMER PO49 is based on an unique polymeric wax which provides additional flow improvement during processing. ADDIMER PO49 is especially recommended for MFI adjustment in recycled polypropylene for injection moulding applications.



PP scrap

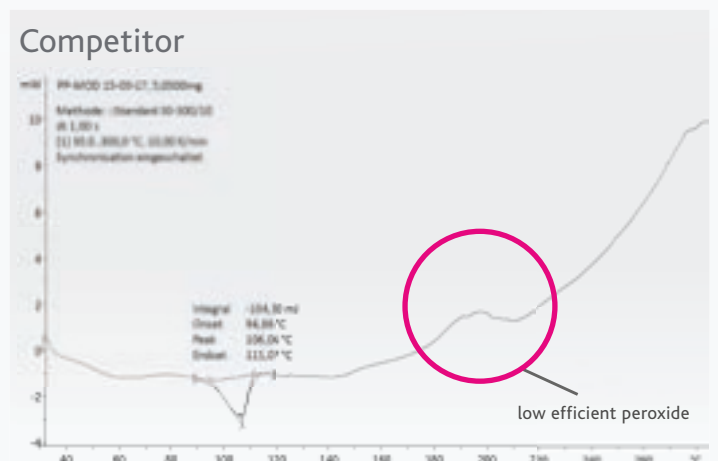
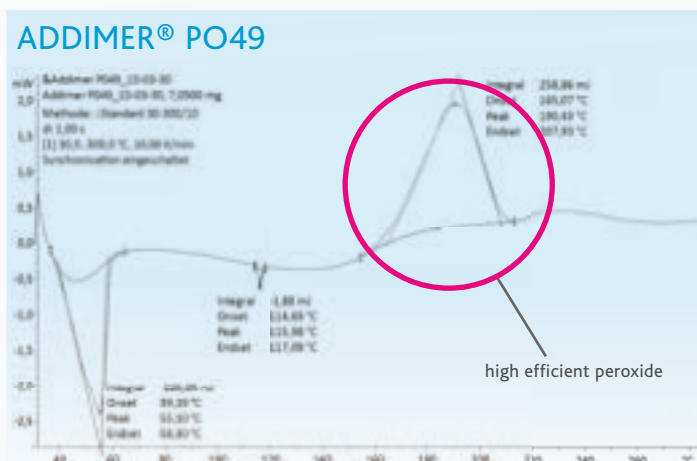


e.g. injection moulding of flower pot

### Main properties

- ◆ lower dosage / efficiency of peroxide
- ◆ better incorporation / mixing
- ◆ uniform depolymerization
- ◆ improved flow and surface properties
- ◆ higher surface gloss

### Technical data



## International distributors

### Europe

#### Germany/Austria

ceronas GmbH & Co. KG  
Hugo-Wagener-Str. 3, 55481 Kirchberg, Germany  
Phone: +49 (0) 67 63/6 33 50-0, Fax: +49 (0) 67 63/6 33 50 99  
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#### Belgium (Coatings)

Grolman Benelux BV  
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### Middle East Region

#### Iran

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E-mail: info@aryachemiepoushesh.com

#### UAE, KSA; Qatar, Kuwait, Bahrain, State of Oman

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### Africa

#### South-Africa (Micronised waxes)

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#### South-Africa (Plastics)

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#### Mexico

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#### Peru

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E-Mail: info@laurusperu.com

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E-mail: dave.grabacki@keim-additec.com

### Asia

#### China (All applications besides PVC and Wood coatings)

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