

# **MUSSINI**®

Finest artists' resin-oil-colours Series 10

The artists' natural resin-oil-colours which are unique throughout the world

Based on old masters' formulations

101 colour tones offering the ultimate in brilliance and purity

including 64 single-pigment colours

42 shades are exquisite translucent colours

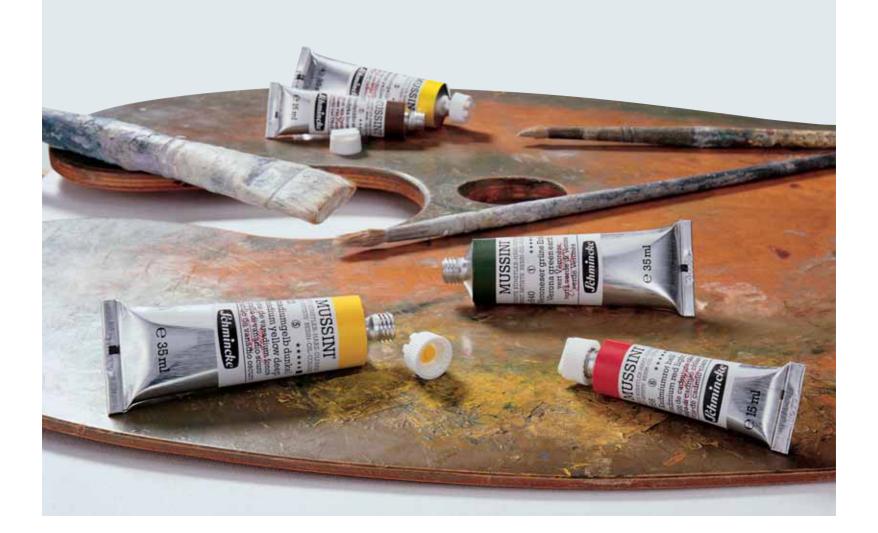
Premium artists' pigments in the highest concentrations

Maximum possible light-fastness

Balanced drying process

Tension-free and durable colour-layers





# MUSSINI®, finest artists' resin-oil-colours from *Ichmincke*,

are unique artists' colours produced by means of a particularly sophisticated manufacturing process to meet the very highest requirements. It goes without saying that they contain only the best traditional artists' pigments together with several outstanding newly developed artists' pigments, each in the highest possible concentrations and in pure form.

This results in artists' colours of the utmost brilliance and purity, which also mix more readily than premixed colour tones based on a limited selection of pigments. Schmincke employs more than 250 different artists' pigments, almost 100 of which are contained in the MUSSINI® range.

The old masters of past centuries had to make do with a very limited range of good pigments. They would have been delighted at some of the many new artists' pigments which have now been developed, such as bismuth vanadate, spinel pigments, rutile pigments, diketo pyrrolo-pyrrole and perylene. They add particularly light-fast nuances to the professional spectrum available to today's artists.

Thanks to the particularly extensive range of glaze pigments, their fine processing and the specially adapted formulations, **MUSSINI®** provides for fine glaze colouring with outstanding brilliance, luminosity and light depth.

### **MUSSINI®** – unique throughout the world!

The uniqueness of these finest professional artists' colours stems in particular from the adoption of the old masters' practice of combining selected artists' oil with natural resin. Masters back in the days of the late Middle Ages were already using indigenous European resins, such as mastic from the Greek island of Chios and copal. Natural resins were also used to enhance colour brilliance and the impression of depth in Byzantine art during the first centuries A.D. Throughout the long history of the development of oil colouring techniques a large number of very special binder formulations have been tested, and this fund of knowledge has been applied in evolving the **MUSSINI®** range.

On the basis of many years of scientific experience in the field of artists' colours, Schmincke continues to use a broad and diverse scope of artists' oils, which it combines with the most suitable natural dammar resin from Palembang, Indonesia.



Fig. Colour-charts from the 1930s

The amount of dammar resin which is added in colloidal solution depends on the oil requirements of the pigment concerned. The use of different variants of linseed oil purified by means of highly sophisticated processes also predominates in the MUSSINI® artists' resin-oil-colours.

However, other artists' oils, such as safflower oil, poppy-seed oil and sunflower oil, also possess properties beneficial to colouring applications which – when optimised with the requisite expertise – further enhance the formulations. So-called auxiliary agents and additives are also used, though in minimal and individually dosed amounts. These provide for the consistency and fineness which is required for colouring applications and ensure a harmonious drying process for the oil colours.

Pigment and a linseed oil are simply not sufficient to make a good artists' oil colour.

Schmincke's research efforts are always aimed at eliciting the full brilliant potential of the artists' pigments in all their individual variations while at the same time maintaining a harmonious overall range. This offers the artist absolute freedom to combine and mix the artists' colours of his choice.

What distinguishes the unique MUSSINI® natural resinoil-colours from the best and finest "pure" (resin-free) artists' colours, such as NORMA® Professional or other comparable fine artists' oil colours?

### **Outstanding drying properties**

Solvent evaporation = Volume reduction



Colour layer

MUSSINI® dries more evenly from inside, too, as a result of the largely self-compensating chemical and physical drying process: The increase in volume resulting from the chemical drying process which begins on the surface via oxygen uptake is largely compensated by the solvent content in the dammar solution which evaporates from inside.

The microscopic evaporation pores enable oxygen to penetrate more effectively into the inner layers, thus providing for more even drying of the surface and inner layers. This, in turn, reduces the danger of wrinkling and surface tension during the drying process. The dammar fractions which are finely incorporated in the colloidal solutions are enclosed by the drying artists' oils and enhance the brilliance of the colour layers.

Works by old masters which have been preserved in far better condition than many works by more recent Impressionist and Expressionist masters attest to the durability of such resin-oil artists' colours.

### What makes MUSSINI® so unique?

Before the tube was invented, resin-oil-colours sank into obscurity because they did not lend themselves to transportation in leather and hide pouches. The founders of the Schmincke company, the chemists Hermann Schmincke and Josef Horadam were aware of the almost forgotten traditional resin-oil colour formulations when they decided in 1881 not only to import raw materials and manufacture pigments (in particular ultramarine) for colouring, but also to produce prime quality artists' colours. They found a guardian of the old masters' formulations in Professor Cesare Mussini, who only worked in a studio at the Academy of Florence.

Professor Mussini sold them the formulations, thereby enabling the company H. Schmincke & Co., established 1881, to quickly advance to the position of the leading German artists' colour manufacturer of the time.

### MUSSINI® and Norma®

Before the turn of the century, when Josef Horadam obtained his European patents for HORADAM® finest artists' watercolours, Schmincke developed the stan-

dardised finest resin-free NORMA artists' oil colours from small special assortments for academy professors. Today, they represent a professional standard for finest artists' oil colours throughout the world – surpassed only by the unique MUSSINI® range.





### Schmincke MUSSINI® symbols and testing

### **Colour Index and Pigment Names**

The **C**olor Index system is an international standard to denominate dyes and pigments. In the C.I. a combination of letters and numbers indicate the colour category (C.I.-**Name**) i.e. PO 20 means Pigment Orange 20. This is followed by a 5-digit colour **number** which identifies the pigment for the chemist. We rather use instead of this number the clear chemical name of the pigment – i.e. instead of PO 20, 77203 we write PO 20 Cadmium Sulfoselenide.

### The groups of Colour Index names are:

PW = Pigment white	PB = Pigment blue
PY = Pigment yellow	PG = Pigment green
PO = Pigment orange	PBr = Pigment brown
PR = Pigment red	PBk = Pigment black

PV = Pigment violet

### **Opacity and glazing properties**

The opacity of a pigmented colour is not only depending on the thickness of the colour application but also on the distribution and size of the pigments as well as the height of the refractive index of the applied colour. All colours have been submitted to the same testing method: standardized application on black and white striped saturated base. This allows a classification with the 4 Schmincke squares, which are now also being used by some other producers:

□ transparent□ semi-transparent□ semi-opaque□ opaque.

### Lightfastness

This describes the durability of a colour in daylight. The light-fastness therefore is not only referring to the pigment, but always to the total system – pigment, binding medium, additives. A number of influencing factors play a role too, likei ntensity of sunlight, temperature, moisture, oxygen or gas

content of the air. The importance and combination of the various influencing factors vary depending on daytime and season as well as on geographic factors. We test our colours according to the German DIN Standard 16525. In connection with the textile industry we use as an objective scale the so called blue wool scale. This testing method consists of 8 wool stripes tinted with different lightfast dyes. The lightfastness is expressed in numbers. 1 means very low, 8 is the highest lightfastness according to the measurable changes of the 8 wool stripes in a given time. We translate those findings into our 5-star system. This allows a more precise differentiation especially in the more lightfast categories than with the usual 3 or 4 steps used by other producers.

Blue wool scale	Stars ★	
8	****	extremely lightfast
7	****	good lightfastness
5+6	***	lightfast
4	**	limited lightfastness
3	*	less lightfast
1 + 2	_	not lightfast

Lightfast colour systems require very long testing periods under natural light. For the testing of pigmented colour systems we therefore also use intensive exposure instruments to speed up this process. This does not only allow faster classification, but also permits to obtain reproducible results independent of location, climate and time. Such testing instruments contain Xenon light, which are adapted to daylight by using filters. Longterm exposure on the roof represents additional testing.

# **Schmincke** MUSSINI® – finest artists' resin-oil-colours, series 10

1 Price group

\*\*\*\* good lightfastness N semi-transparent This brochure has been printed in a 7-colour offset print – that means tones \*\*\* lightfast semi-opaque are only nearly identical with original colours. \*\* limited lightfastness opaque Due to steady efforts for further improvements and changes in the raw less lightfast material and pigment fields slight colour deviations are possible. Differences 48 colour assortment between documents and labels are possible according to differing printing 101 colours are available in tube 06 (15 ml) and tube 09 (35 ml), 3 whites also in tube 12 (120 ml). No. Name Pigment(s) C.I.-No. Description Pure white, semi-opaque in relation to titanium white and bluer. 102 Zinc white zinc oxide PW 4 Ideal for lightening multicoloured shades. ② ★★★★★ ☑ 103 Titanium Pure, brilliant white. Possesses the highest opacity PW 6 opaque white • zinc oxide PW 4 and tinting power of all white colours ① ★★★★★ ■ 105 Translucent PW 4 Titanium white with ultrafine primary grain, providing a semizinc oxide titanium dioxide PW 6 transparent effect. Forms fine white haze effects which display a milky blue shimmer in glancing light. (5) ★★★★★ □ An ideal colour to create atmospheric perspectives. 206 Flesh tint zinc oxide PW 4 Warm, reddish flesh tone. Ideal base for mixing other flesh hydrated iron oxide PY 42 red iron oxide PR 101 ② ★★★★★ ☑ 787 Brownish grey 1 Zinc oxide PW 4 Opaque grey with delicate red tinge, without black pigments. PW 6 PY 155 titanium dioxide disazopigment ② ★★★★ ■ 788 Brownish grey 2 Zinc oxide PW/ 4 Semi-opaque grey with green tinge, without black pigment. phthalocyanine green PG 36 hydrated iron oxide ② ★★★★★ ☑ PBr 33 zinc-iron-chromium 784 Bluish grey 1 Zinc oxide Light stone grey, a "neutral" grey for the beholder. titanium dioxide hydrated iron oxide PW 6 PY 42 ② ★★★★★ ■ graphite PBk 10 785 Bluish grey 2 PW 4 Zinc oxide Opaque bluish grey, similar to slate grey. titanium dioxide graphite PBk 10 (2) ★★★★★ ■ 790 Shade grey Hydrated chromium oxide PG 18 Greenish, semi-transparent grey. Specially developed to hydrated iron oxide PY 42 produce the Italian masters' famous "sfumato" - a fine grey PBk 11 mist which was applied to portraits, for example, black iron oxide ② ★★★★ □ zinc oxide PW 4 in order to lend them a softer look. 792 Dove grey Red iron oxide PR 101 Pleasant, warm dark grey with a "hint" of violet. PW 4 black iron oxide PBk 11 ② ★★★★★ ■ 782 Schmincke Ultramarine blue PB 29 Traditional Schmincke grey colour. PR 101 Payne's grey red iron oxide Very similar to a dark neutral grey. lamp black PBk 7 PBk 7 781 Lamp black Particularly fine gas black with maximum depth of colour. Lamp black This provides for high intensity and tinting power. ① ★★★★★ ■ 780 Ivory black Carbonized bones PRk 9 Traditional deep black, opaque and light-fast. Formerly obtained of animals from charred ivory pieces, now produced via the dry distillation of degreased bones. ① ★★★★★ ■ 783 Mineral Copper chromite "Cool", inorganic black with a gentle tinge of charcoal. PBk 28 black (black spinel) Produces a blue-tinged grey when mixed with white. ① ★★★★★ ■ Modern organic black pigment. Very deep in full tone, close to a Russian green in glazes. Produces green-tinged grey tones 779 Atrament Perylene when mixed with white. Atrament was the name for a very cold ② ★★★★ □ black in Roman times.

\*\*\*\* extremely lightfast

transparent

### **Schmincke** MUSSINI®



# **Schmincke** MUSSINI® – finest artists' resin-oil-colours, series 10



No.	Name	Pigment(s)	C.INo.	Description
	Brilliant scarlet  ◆  ★★★★ □	Disazo-condensation	PR 242	In former times, scarlet was a much sought-after colour which was obtained from a coccid which lives in the lermes oak.  Today, the name "scarlet" is given to a brilliant red with a very pronounced yellow tinge.
	Cadmium red light	Cadmium- sulpho-selenide	PR 108/ PW 21	Pure opaque red with high tinting power. Similar to vermilion red.
6	<b>***</b> * ■			
	Vermilion red tone • ★★★★★	Diketo-pyrrolo-pyrrole	PR 255	Classic red. As real cinnabar is toxic and possesses poor light-fastness, this colour has been imitated with a modern, organic pigment. Brilliant, opaque red, bluer than scarlet, yellower than carmine.
	Cadmium red middle ★★★★★	Cadmium-sulpho- selenide	PR 108/ PW 21	Rich opaque red with high tinting power. Darker and bluer than light cadmium red.
	Cadmium red tone ★★★★★	DPP Quinacridone	PR 242 PV 19	Imitation of medium cadmium red with organic pigments. High tinting power, opaque, cadmium-free.
_	Cadmium red deep ★★★★★	Cadmium- supho-selenide	PR 108 PW 21	Very deep red with a blue tinge. High opacity and tinting power.
	Madder root tone •	Quinacridone	PR 206	Finely translucent dark, brownish red. Comparable with very red mahogany.
	Florentine red ◆  ★★★★ □	Perylene	PR 179	Perylenes are among the most light-fast organic pigments. A translucent, cold, dark red with a slight brown tint. Florentine red is based on the old Florentine colour which was obtained from Brazil wood and was similar in colour.
	Translucent red oxide • ★★★★ □	Red iron oxide	PR 101	Warm, finely translucent reddish brown, commonly used today to imitate burnt Sienna.
	Madder lake brilliant ●	Quinacridone	PR 209	Translucent, very bright deep red. With the exception of "Alizarin madder", our MUSSINI "madder" colours are standard tone designations. They are simulated today with highly light-fast, translucent, modern organic pigments.
	Alizarin madder lake ★★★ □	Anthrachinone, AL	PR 83:1	Cold, rich dark red, produces good glaze effects. Originally an alumina-based colour from alizarin, the main dyestuff contained in the madder plant. Since 1870, alizarin has been obtained and processed into colour by synthetic means.
_	Madder lake dark ★★★★ □	Diketo-pyrrolo-pyrrole	PR 254/ PV 42	Brilliant dark red with a blue tinge. Lighter than alizarin madder colour, produces a good glaze effect.
	Carmine ★★★ □	Diketo-pyrrolo-pyrrole Quinacridone	PR 254/ PV 42/ PV 19	A standard tone designation, derived directly from the Latin name for the cocchineal louse. Brilliant red with blue tinge, semi-translucent.
	Translucent magenta •	Quinacridone rose	PR 122	Corresponds to the basic colour magenta in subtractive colour mixture, produces a very good glaze effect.  Produces brilliant, translucent violet shades when mixed with glaze cyan.
	Caesar • purple ★★★★ □	Quinacridone	PV 19	Finely translucent colour, bluer than magenta. In ancient times, purple was obtained by means of a complicated process from the gland of a snail, and was much sought-after as a particularly valuable dye for artists' colours.
	Cobalt violet	Cobalt phosphate	PV 14	Very pure violet with a reddish tinge.
473	****  Translucent violet  ****	Dioxazine	PV 23	Very finely translucent, brilliant bluish violet with particularly high tinting power.

# **Ichmincke** MUSSINI®



® No.	Name		Pigment(s)	C.INo.	Description
	Byzantine blue  ★★★★	•	Indanthrone blue black iron oxide zinc oxide	PB 60 PBk 11 PW 4	Dark black blue which retains its blue character. Often appears in Byzantine frescos. In former times it was obtained primarily from azurite and a small fraction of coal. Composition of modern, light-fast pigments.
	Indigo tone  ★★★★ ■	•	Quinacridone indanthrone blue graphite	PV 19 PB 60 PBk 10	Imitation of indigo with very high tinting power and improved light-fastness. Also comparable to midnight blue on account of its depth of colour.
	Indigo ★★★		Synthetical indigo	PB 66	Deep blue with very high tinting power. This colour used to be obtained from the indigo plant or woad; today, indigo is produced by synthetic means.
	Delft blue  ★★★★ □		Indanthrone blue	PB 60	Finely translucent dark blue shade with a red tinge.
492	Ultramarine blue deep ★★★★		Ultramarine blue	PB 29	Finely translucent, very pure blue with a red tinge. In the Middle Ages ultramarine was obtained from the semi-precious stone lapis lazuli. Not until the first third of the 19th century was it possible to produce ultramarine by synthetic means.
	Ultramarine blue light ★★★ □	•	Ultramarine blue	PB 29	Lighter than dark ultramarine and with a slightly less pronounced red tinge.
	Cobalt blue deep ★★★★★ ■		Cobalt-zinc- silicon oxide	PB 74	Semi-opaque blue with a subtle red tinge. Genuine cobalt blue was discovered in the 18th century, and was first used in colouring at the beginning of the 19th century. With cobalt blue, it was now possible to colour a radiant blue sky.
	Cobalt blue light ★★★★★		Cobalt aluminate blue spinel	PB 28	Semi-opaque, clear blue with a slight red tinge.
	Cobalt blue tone ★★★★	•	Ultramarine blue phthalocyanine blue zinc oxide	PB 29 PB 15:6 PW 4	Imitation of dark cobalt blue with ultramarine. Opaque, with high tinting power, slightly greener and duller.
	Translucent Oriental blue ★★★★ □	•	Phthalocyanine blue	PB 15:6	Finely translucent, brilliant deep blue, the phthalocyanine pigment with the most pronounced red tint. These pigments were discovered in the 1920s and are now one of the most important and most stable organic pigments.
	Prussian/ Paris blue	•	Iron-cyan-blue	PB 27	Traditional colour. Black blue with very high tinting power. Its real shade is only revealed in glazes. Has a tendency toward bronzing on account of its high pigmentation.
	Royal blue light ★★★★		Zinc oxide titanium dioxide cobalt-pigment- combination	PW 4 PW 6 PB 36	The classical royal blue was introduced under King Louis XIV of France, based on a cobalt pigment. The king's blue was light corresponding roughly to a green-tinged sky blue, similar to our light royal blue.
	Royal blue deep ★★★	•	Zinc oxide titanium dioxide ultramarine blue phthalocyanine blue	PW 4 PW 6 PB 29 PB 15:3	The possibility of producing ultramarine synthetically led to an increase in variations of the royal blue colour. Dark royal blue is a brilliant medium blue produced with ultramarine
	Cobalt cerulean blue ★★★★		Cobalt-tin-oxide	PB 35	Semi-opaque cobalt blue shade with a greenish tendency.
	Translucent cyan ★★★★ □	•	Phthalocyanine blue	PB 15:3	Corresponds to the basic colour cyan in the subtractive colour mixture; very good glaze effect. Produces brilliant, translucent violet shades when mixed with magenta and brilliant, semi-translucent green shades when mixed with lemon yellow.
	Manganese cerulean blue ★★★★		Zinc oxide phthalocyanine blue	PW 4 PB 15:3 PB 16	Brilliant, semi-translucent blue with a turquoise tinge. An imitation of toxic manganese blue using the non-toxic organic phthalocyanine pigments.
	Translucent turquoise ★★★★★	•	Phthalocyanine blue	PB 16	Very finely translucent, brilliant turquoise blue; the phthalocyanine pigment with the most pronounced green tinge.
	Cobalt turquoise ★★★★		Cobalt-lithium- titanium-zinc oxide	PG 50	Opaque, highly light-fast turquoise with high tinting power and extreme brilliance of colour.

No	Name	Pigment(s)	C I -No	Description
	Chrome green tone deep ◆	Cadmium-sulphoselenide cadmium-zinc-sulphide phthalocyanine blue	PO 20	Opaque, deep and pure bluish green with very high tinting power. Formerly produced from chrome yellow and Berlin blue, now imitated with non-toxic pigments.
536 5	Turmaline green ★★★★	Cobalt-chromium oxide-spinel	PG 26	Dark, rich bluish green, similar to the semi-precious stone tourmaline, whose shades range from yellowish green and olive green to bluish green.
	Chromium oxide green brilliant ★★★★ □	Hydrated chromium oxide green	PG 18	Fiery, semi-translucent green with a blue tinge, also commonly referred to as emerald green. This colour has been available to artists since the mid-19th century, when it replaced the copper colours which were toxic at the time.
518 3	Helio green deep ★★★★ □	Phthalocyanine green	PG 7	Finely translucent, brilliant, blue-tinged, rich green which cannot be produced by mixing.
	Helio green light ★★★★ □	Phthalocyanine green	PG 36	Lighter variation with a more pronounced yellow tinge than dark helio translucent green.
535 6	Oriental green  ★★★★	Cobalt-titanium- nickel-zinc oxide	PG 19	Opaque pure medium green with high tinting power.
513	Chromium oxide green deep ★★★★★	Chromium oxide green	PG 17	Dull, olive-tinged, highly stable green, with high tinting power and opacity.
529 ③	Viridian •  ★★★★ ►	Zinc oxide bismuth vanadate hydrated chromium oxide green	PW 4 PY 184 PG 18	Semi-translucent, gentle, yellow-tinged green, very similar to the "original" Schweinfurt green. Schweinfurt green was an important artists' colour in the 19th century, but was highly toxic on account of its arsenic content.
528 ①	Cobalt green opaque  ★★★★	Bismuth vanadate cobalt-lithium- titanium	PY 184 PG 50	Brilliant light green with high opacity, produced from two "pure" pigments.
	Verona green earth ★★★★ □	Hydrated chromium oxide green red iron oxide	PG 18 PR 101	Imitation of the prime Terra Verde earths from Baldo near Verona, which are no longer available. Ideal for producing the "Verdaccio" effect, the green priming coat applied to the main areas in portrait colouring.
526	Sap green •  ★★★★ □	Indanthrone blue azo-nickel-complex	PB 60 PY 150	Dark green with good glaze effect. Similar to Dutch pink, which was obtained from the unripe berries of the milkwort.
510 <u>3</u>	Chrome green tone light ★★★★★	Disazo-pigment chromium oxide green hydrated iron oxide	PY 155 PG 17 PY 42	Opaque, light and pure green with very high tinting power; lighter and markedly yellower variant of dark chrome green.
530 ②	Yellowish green  ★★★★	Monoazoyellow phthalocyanine green hydrated iron oxide	PY 74 PG 7 PY 42	Light yellowish green with high opacity.
3 3	Translucent golden green ● ★★★★ □	Metal complex phthalocyanine green	PY 129 PG 7	Golden-toned in glazes, like a light, yellowish sap green in full tone.
	Natural Bohemian green earth ★★★★★ □	Earth pigment	PBr 7	Natural earth with a highly pronounced brown tinge, low tinting power. Results from the weathering of calcium-magnesium-iron silicates.

# **Schmincke** MUSSINI®



No.	Name	Pigment(s)	C.INo.	Description
656	Attish light •	Hydrated iron oxide	PY 42	Imitation of the ochre which was much sought-after in
1	**** \( \sqrt{\sq}}}}}}\sqrt{\sq}}}}}}}}}}} \signignignignightift{\sqrt{\sq}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}\sq}}}}}}}}} \end{\sqrt{\sq}}}}}}} \end{\sqrt{\sqrt{\sq}}}}}}} \sqrt{\sqrt{\sqrt{\sqrt			ancient times, using modern ferrous oxides. Semi-opaque to semi-translucent. Fiery golden yellow in glazes.
	Raw Sienna	Earth pigment Red iron oxide	PBr 7 PR 101	Semi-translucent to semi-opaque ochre yellow pigmented with a natural earth from Germany.
1)	***** 🗷			
644	Yellow Sienna •	Hydrated iron oxide Red iron oxide	PY 42 PR 101	Imitation of the particularly brilliant Sienna earths, which are virtually unobtainable today, with selected ferrous oxides.
2	****			
653	Deep ochre •	Earth pigment	PY 42/ PY 43	Dark, warm, red-tinged ochre pigmented with a natural earth from Germany.
1	*** <b>*</b> ■			*
237	Translucent • orange oxide	Red iron oxide hydrated iron oxide	PR 101 PY 42	Warm, finely translucent brownish orange.
3	**** □	nyaratoa non oxiao		
	Natural burnt Sienna •	Earth pigment	PBr 7	Dark reddish brown, semi-translucent to semi-opaque, pigmented with a burnt natural earth.
651	English red	Red iron oxide	PR 101	Generic name for light iron oxide reds, brownish red with
1	*** <b>*</b> ■			high opacity and tinting power.
663	Pozzuoli earth	Red iron oxide	PR 101	Imitation of the famous natural earths from Italy, which are barely
1	****			obtainable today. Its name relates to the place where it was formerly found at the foot of Vesuvius. Slightly lighter and yellowe than Pompeiian red, with high opacity and tinting power.
647	Pompeiian red	Red iron oxide	PR 101	This warm, brownish red was found on the mural colourings in Pompeii. It is darker than Terra Pozzuoli.
1	*** <b>*</b> ■			•
648	Caput mortuum	Red iron oxide	PR 101	Violet-tinged dark reddish brown with high opacity and tinting power. Its name is derived from the field of alchemy and means
1	*** <b>*</b> ■			"death's head", as this colour was obtained from iron salts which were baked down to their "dying" embers.
672	Mineral brown	Zinc-iron- chromium-brown	PBr 33	Opaque, pure dark brown with high opacity and tinting power, lighter and purer than a burnt umber.
3	*** <b>*</b> ■			
662	Brown pink	Metal complex red iron oxide	PY 153 PR 101	Stil de grain was formerly obtained from the dyestuff contained in the semi-ripe berries of the milkwort –
3	****	hydrated iron oxide phthalocyanine green	PY 42	a warm translucent tone.
669	Translucent brown oxide	Brown iron oxide	PR 101	Dark, finely translucent reddish brown with high tinting power, more fiery than Vandyke brown.
1	****			
670	Raw umber • light	Earth pigment	PBr 7	Pigmented with a natural earth. Very fiery and yellow-tinged when used for glazing.
1	****			,, ,gg
664	Natural raw umber	Earth pigment phthalocyanine green	PBr 7	Mixture of natural earths and organic pigments. Semi-translucent, dark, olive-tinged brown.
1	****	hydrated iron oxide	PG / PY 42	Communication, dairy onve-unged brown.
666	Natural burnt umber	Earth pigment	PBr 7	Pigmented with a natural earth. When burned, the umbers lose
1	±±±±± ■			water of crystallisation and their grain size increases. This results in increased opacity and a shift in the shade towards a deep reddish brown with high tinting power.c
667	Vandyke brown		PR 179	Imitation of the colour which was formerly obtained from
1	****	red iron oxide lamp black	PR 101 PBk 7	fine-washed brown coal, using highly stable pigments. The original colour was similarly unstable to asphalt. A translucent, deep blackish brown.
	Asphaltum black translucent ★★★★★	Red iron oxide quinacridone lamp black	PR 101 PV 19 PBk 7	Highly stable pigments are used to imitate the asphalt colour which was widespread in the 19th century, a translucent, deep brown of low stability which was able to show through the colour layers.

# **Schmincke** Mediums for oil painting

#### Art.-No. ml 1. **Primer**

50 **500** 500 size 50 **502** 500/1000 primer 50 **504** 500/1000/4000 gesso

60/200/1000

60/200/1000

60/200/1000

60/200/1000

50 **038** 

50 **039** 

50 **040** 

50 **045** 

50 **015** 

50 **027** 

50 **014** 

50 **005** 



### 2. **Application**

Mediums/additives

MUSSINI medium 1 for thinning

MUSSINI medium 2 retards drying MUSSINI medium 3

accelerates drying medium N

neutral drying, without oil of turpentine

50 **022** 60 Siccative de Haarlem 50 **041** 60/200/1000 rapid medium

fast-drying 50 **053** 60 transparent paint medium

50 **037** 35 transparent gel 50 **036** 35 50 **034** 35/120

drying accelerator megilp stabilizer of consistency







	2.2	Binding mediums
60/200/1000		linseed oil, refined + bleached
60/200/1000		linseed oil, cold pressed
60/200		boiled linseed oil
60/200		stand linseed oil

slowly drying 50 **016** 60/200 poppy oil bleached 50 **025** sunflower oil 60 refined/winterized

Lease Separate  Lease Separate	Comments  10 City  10	Section Sectio	Manufacture State of	Comments of the Comments of th	Section 1
50 <b>005</b>	50 014	50 <b>015</b>	50 <b>016</b>	50 <b>025</b>	50 <b>027</b>

90	Venetian turpentine resin viscous natural balsam
100/1000	dammar in pieces
100	Chios mastic resin
100	cyclohexanone resin
	100/1000



## 3. Thinner and cleaning agents

50 **024** 60/200/1000 gum spirit of turpentine oil of turpentine, refined 50 **102** 60/200/1000 50 **019** 60/200/1000 turpentine substitute 50 **023** 60/200/1000 terpin cleaner 50 **013** 60/200/1000 citrus-terpin 50 **051** 60/200/1000 brush cleaner 50 **026** 60/200/1000 Diluent N, thinner, odourless





#### 50 **064** 50 **085** 50 **083** 50 **084** Varnish 50 **020** 60/200/1000 alcoholic retouching varnish, glossy 60/200/1000 50 **084** universal varnish RS, glossy 60/200/1000 picture varnish, glossy 50 **083** 50 **065** 60/200/1000 final varnish, glossy 60/200/1000 50 **008** dammar varnish, glossy 50 **008** 50 **017** 50 **020** 50 **072** 50 **017** 60 mastic varnish, satin gloss 50 **044** 60/200/1000 neutral varnish 50 **064** 60/200/1000 mat varnish 50 **072** 35 wax varnish, mat satin gloss

AEROSPRAY picture varnish

AEROSPRAY final varnish,

AEROSPRAY glossy film

AEROSPRAY mat film

Chasialities

glossy

glossy

		5.	Specialities
50 <b>021</b>	60		siccative, dark
50 <b>018</b>	35		cleaner for oil paintings
50 <b>069</b>	60		Phöbus A, restoring medium
50 <b>060</b>	60/200		varnish remover
50 <b>003</b>	60		copaiba balsam

50 **414** 

50 **416** 

50 **412** 

50 **408** 

300

300

300

300









50 **408** 50 **412** 50 **414** 50 **416** 

# Pchmincke MUSSINI® – finest artists' resin-oil-colours





Empty sets are available as follows:

(A) Art.-No. 71 954

(B) <u>Art.-No. 71 915</u>

(C) Art.-No. 71912

(A) MUSSINI® double wooden set with a 120 ml tube titanium white, 18 tubes of 15 ml and 17 tubes of 35 ml. Accessories consisting of: a double palette cup, palette knife, megilp medium, drying accelerator, transparent gel, MUSSINI® medium 1, Terpin cleaner, 3 brushes and drawing charcoal.

Colours:

224, 232, 237, 239, 353, 363, 365, 479, 486, 494, 497, 510, 511, 534, 647, 653, 779, 780 209, 216, 223, 243, 346, 364, 473, 487, 490, 491, 518, 526, 529, 640, 656, 661, 666 15 ml

35 ml

120 ml 103 Art.-No. 70 430

(B)  $\textbf{MUSSINI}^{\text{o}}$  large wooden set with 15 tubes 35 ml and white (120 ml). Accessories consisting of: a double palette cup, palette knife, MUSSINI® Medium 1, Terpin cleaner, 3 brushes and drawing charcoal.

Colours:

35 ml 209, 216, 223, 346, 364, 473, 490, 491, 518,

526, 647, 656, 661, 666, 780

120 ml

Art.-No. 70 615

(C) MUSSINI® small wooden set with 12 tubes 15 ml and white (120 ml). Accessories consisting of a single palette cup, MUSSINI medium 1, 2 brushes and drawing charcoal. Colours:

216, 223, 346, 364, 490, 491 15 ml 518, 526, 656, 661, 666, 780

120 ml 103 Art.-No. 70 212

(D) **MUSSINI**® wooden set "Test the best" – 3 tubes 15 ml-Tube: 238, 344, 477 Art.-No. 70 001

(E) MUSSINI® introductory set-8 colours 15 ml: 103, 216, 363, 364, 477, 491, 518, 656 Art.-No. 70 008



We reserve the right to change the composition of sets.