



TECHNICAL MEETING

POLYURETHANE PRODUCTS

TECHNICAL MEETING

PRODUCT RANGE PRESENTATION



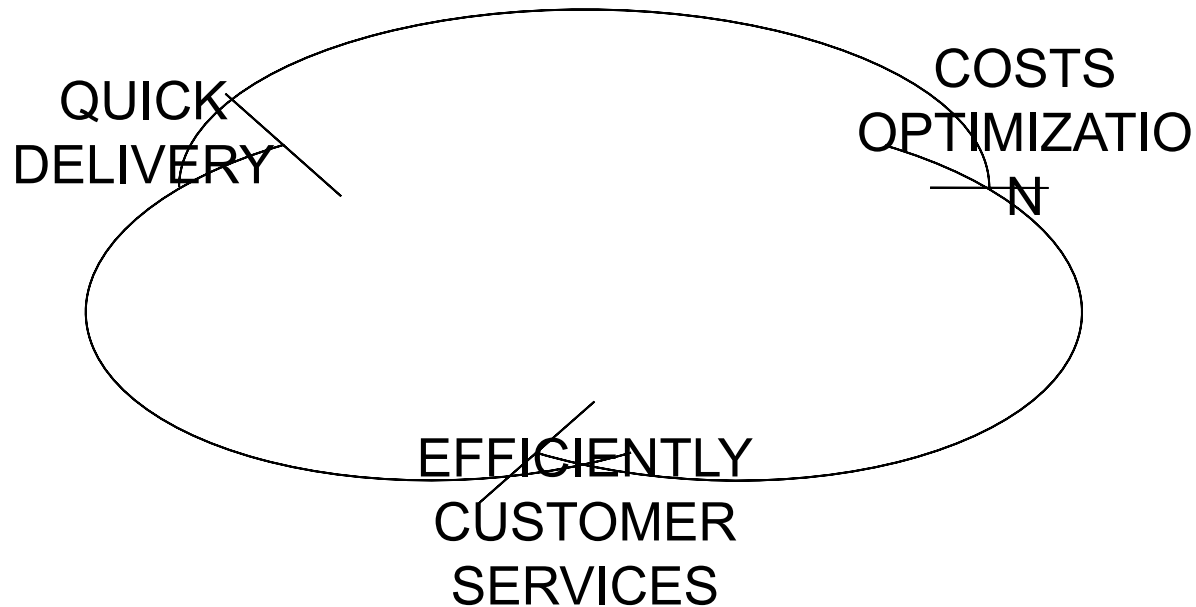
TECHNICAL MEETING

IT IS THE RESULT OF:

- OPTIMIZATION OF MARKET KNOWDLEGE
- RESEARCH AND DEVELOPMENT KNOW HOW
- PRODUCTION OPTIMIZATION
- SERVICES OPTIMIZATION

TECHNICAL MEETING

STOCK OF PRODUCTS



TECHNICAL MEETING



HOW TO IMPROVE IT?

FOLLOWING THE
MARKET'S NEEDS

TECHNICAL MEETING



BECAUSE A PRODUCT RANGE IS
A “DYNAMIC INSTRUMENT”
TO GET TOGETHER OUR TARGET
BUSINESS

TECHNICAL MEETING



MILESI PRODUCTS



TECHNICAL MEETING



TECHNICAL MEETING

POLYURETHANE



- MOST POPULAR
- 2 COMPONENTS
- DRY AT ROOM TEMPERATURE or/and BY OVEN
CLEAR AND PIGMENTED
- GLOSSY, MATT, SEMI-MATT

TECHNICAL MEETING



POLYURETHANE 1st component

- OH resins solutions
- Alkyd or acrylic resins
- Acrylic resins: very clear color, yellowing resistance
- Alkyd resins: more filling e versatility, cheaper

TECHNICAL MEETING



POLYURETHANE 2nd component

- The 2° component (hardener) is a solution of polyisocyanate polymer
- Polyisocyanate ALYFATIC no-yellowing
- Polyisocyanate AROMATIC are more yellowing

TECHNICAL MEETING



Polyisocyanate

ALIPHATIC

- No-yellowing
- Slow drying
- Better plasticity
- Expensive
- Less filling

TECHNICAL MEETING



Polyisocyanate

AROMATIC

- Yellowing
- Dark color
- Fast drying
- More hardeness
- More fragility
- Cheaper

TECHNICAL MEETING

POLYURETHANE PRODUCTS

- **Chemical curing:** the film of paint is formed through simple vaporization of solvents and through chemical reaction of the binders contained in single components (hydroxylic groups, isocyanic groups)
- **Type of application:** spray, Curtain coater...
- **Type of curing:** ambient temperature, hot air

TECHNICAL MEETING

POLYMERIZATION:

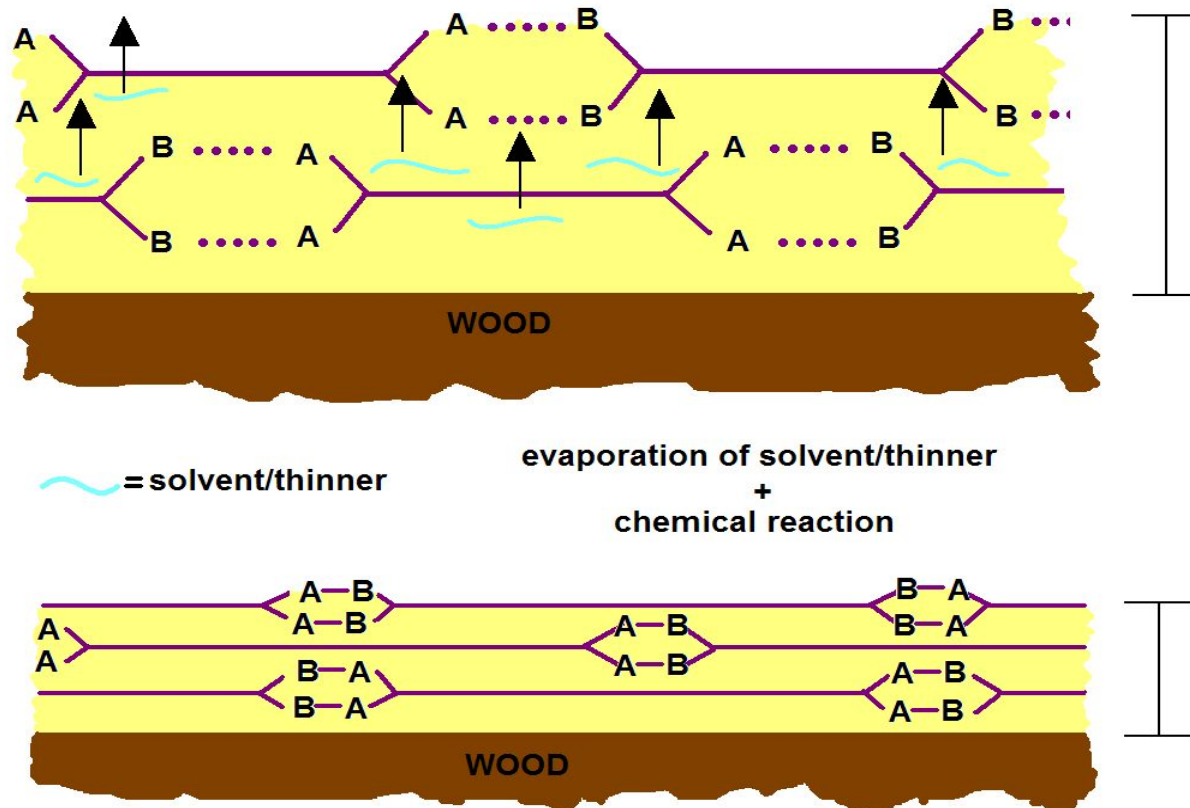
reaction between 2 components

2 processes:

- PHYSICAL Process: solvent evaporation
 - CHEMICAL Process: polymerization between 2 resins
-
- They start at the same time, the 1° process must finish before the 2° one
 - High temperature decrease the drying time

TECHNICAL MEETING

POLYURETHANE Physical & chemical drying



TECHNICAL MEETING

Why to use an Acrylic product instead of a PU?

- Clearness
- Elasticity
- Adherence to substrate
- Chemical-physical resistance
- Pot life
- Absence of free TDI
- Resistance to yellowing
- Suitability also for chemically whitened cycles
- Versatility to use

TECHNICAL MEETING

PU SEALER

□ CLEAR SEALER

- GENERAL USE - RESELLERS
- FURNITURE
- ELECTROSTATIC APPLICATION
- NOT YELLOWING

□ WHITE PIGMENTED SEALER

TECHNICAL MEETING

PU CLEAR SEALER

GENERAL USE - RESELLERS

High competitiveness	<ul style="list-style-type: none"> ☐ LBA21 ☐ LNB21 (2:1) 	<p>By spray</p> <p>Good sandability, vertical hold and covering power</p>
Medium quality	<ul style="list-style-type: none"> ☐ LBA26 ☐ LNB77 (2:1) 	<p>By spray</p> <p>very good filling power, trasparency and removal resistance</p>
	<ul style="list-style-type: none"> ☐ LBA42 ☐ LNB42 (2:1) 	<p>By spray</p> <p>very good filling power and manual and mechanical sandability</p>
High quality	<ul style="list-style-type: none"> ☐ LBA38 ☐ LNB17 40% 	<p>By spray</p> <p>Excellent trasparency, filling power, levelling, vertical hold and mechanical sandability</p>

TECHNICAL MEETING



PU CLEAR SEALER

FURNITURE		
High quality	□ LBA35 □ LNB17 (2:1)	By spray Excellent filling power, sandability, very fast dry, vertical hold
ELECTROSTATIC APPLICATION		
General use	□ LBA521	By spray Good filling power, fast dry and vertical hold – suitable for assembled furniture
Industrial equipment	□ LBA528	By spray Excellent filling power, wettability and vertical hold – suitable for assembled furniture

TECHNICAL MEETING

PU CLEAR SEALER

NOT YELLOWING		
High competitiveness	<input type="checkbox"/> LJA91 <input type="checkbox"/> LNB99 (10:1)	by spray acrylic based for opened pores with good chemical-physical resistance
General use	<input type="checkbox"/> LJA99 <input type="checkbox"/> LNB99 (10:1)	by spray acrylic based fast dry, good sandability
High filling power	<input type="checkbox"/> LJA612 <input type="checkbox"/> LNB99 (10:1) (ex LJA13866)	by spray acrylic based with very good filling power for closed pores

TECHNICAL MEETING



PU WHITE SEALER

- GENERAL USE
- HIGH QUALITY

TECHNICAL MEETING

PU WHITE SEALER

<p>High Competitiveness</p>	<p>ILBR16 ILNB16 30%</p>	<p>By spray Very good sandability, fast dry and good white point</p>
<p>General use</p>	<p>ILBR30 ILNB77 40%</p>	<p>By spray and curtain coater Very good manual sandability massive and veneered woods, MDF</p>
<p>High quality</p>	<p>ILBR102 ILNB42 (2:1)</p>	<p>By spray and curtain coater excellent hiding power, manual and mechanical sandability for massive and veneered woods, MDF</p>

TECHNICAL MEETING



PU CLEAR MULTILAYER

- POLYURETANIC
- NOT YELLOWING
- KOMBY

TECHNICAL MEETING

PU CLEAR MULTILAYER

POLYURETANIC

General use

- LGA8X
- LNB42 (2:1)
- X=3 35 gl
- X=4 20 gl

by spray and curtain coater
very good filling power, vertical hold, fast dry for furniture and panels

KOMBY

High competitiveness

- LGA81X
- LNB99 (10:1)
- NEW
- X=1 60 gl
- X=2 40 gl
- X=3 20 gl
- X=4 10 gl

by spray
very fast dry, good levelling and pore design for old style and modern furniture, turned parts

TECHNICAL MEETING

PU CLEAR MULTILAYER

NOT YELLOWING

<p>Excellent yellowing-resistance</p>	<ul style="list-style-type: none"> □ LUA43X □ LNB99 (10:1) <li style="padding-left: 20px;">X=1 60 gl <li style="padding-left: 20px;">X=3 35 gl <li style="padding-left: 20px;">X=4 10 gl 	<p>by spray and curtain coater acrylic based with excellent transparency certified DIN 4102 B1 and 68861 1B for furniture, doors, chairs, kitchen and office furniture</p>
<p>General use</p>	<ul style="list-style-type: none"> □ LUA13X □ LNB99 (10:1) <li style="padding-left: 20px;">X=4 20 gl <li style="padding-left: 20px;">X=3 30 gl <li style="padding-left: 20px;">X=2 50 gl 	<p>by spray and curtain coater acrylic based with good not yellowing resistance and pore design for furniture, doors, profiles and tables</p>
<p>Natural effect</p>	<ul style="list-style-type: none"> □ LUA118 □ LNB99 (10:1) <li style="padding-left: 20px;">(Ex 19075) 5 gl 	<p>by spray acrylic based wood effect for furniture, panels and wood pieces</p>

TECHNICAL MEETING



PU CLEAR MATT TOPCOAT

- GENERAL USE - RESELLER
- ACRYLIC - NOT YELLOWING
- FURNITURE
- ELECTROSTATIC APPLICATION

TECHNICAL MEETING

PU CLEAR MATT TOPCOAT

GENERAL USE

General use

- LGA2x/serie
- LNB77 (2:1)

Complete range

By spray

good mechanical and chemical resistance and excellent tactile smoothness

for baseboards, frames, turned parts, furniture and wood pieces

TECHNICAL MEETING

PU CLEAR MATT TOPCOAT

ACRYLIC - NOT YELLOWING

<p>High competitiveness</p>	<p>□LUA9X □LNB99 (10:1) X=2 30 gl X=3 20 gl</p>	<p>by spray and curtain coater very good chemical-physical resistance against alcohol liquids, good vertical hold and fast dry for furniture and wood parts</p>
<p>General use</p>	<p>□LUA46X □LNB99 (10:1) X=3 25 gl X=4 15 gl X=8 3 gl</p>	<p>by spray and curtain coater excellent leveling, scratch resistance, chemical-physical resistance, soft touch and fast dry for assembled furniture and wood parts</p>

TECHNICAL MEETING

PU CLEAR MATT TOPCOAT

FURNITURE		
Industrial use - high quality	■ LGA23X ■ LNB18 (2:1) X=0 65 gl X=1 40 gl X=2 30 gl X=4 10 gl	by spray and curtain coater excellent levelling, smoothness, trasparency and soft touch for furniture and tables

TECHNICAL MEETING



PU CLEAR GLOSSY TOPCOAT

- High competitiveness
- General use
- High tixotropy
- Not Yellowing

TECHNICAL MEETING

PU CLEAR MATT TOPCOAT

ELECTROSTATIC APPLICATION

High quality

□ LGA53X

□ LNB05 (2:1)

X=2 45 gl

X=3 30 gl

X=4 20 gl

by spray

excellent vertical hold, filling power
and wettability for assembled
furniture, turned parts and chairs

TECHNICAL MEETING

PU CLEAR GLOSSY TOPCOAT

High competitiveness	□ LDA846 □ LNB837 (2:1)	by spray for furniture, doors, frames and wood parts
General use	□ KDA1 □ LNB110 (2:1)	by spray very good brilliance, fast dry for panels, assembled furniture, chairs and furniture components
Not Yellowing	□ LDA401 □ LNB112 (2:1)	by spray acrylic based, excellent brilliance for flat panels and turned wood parts

TECHNICAL MEETING

PU PIGMENTED TOPCOAT

- INDUSTRIAL USE
- TINTOMETRIC SYSTEM



TECHNICAL MEETING

PU PIGMENTED TOPCOAT

INDUSTRIAL USE		
WHITE MATT	□ LKR132 □ LNB77 (2:1)	by spray and curtain coater excellent hiding power for furniture, internal door, frames, profiles and massive wood
WHITE GLOSSY	□ LHR110 □ LNB110 (2:1)	

TECHNICAL MEETING



KROMOSYSTEM

KROMOSYSTEM

TINTOMETRIC SYSTEM

MATT CONVERTER

<p>White pigmented converter</p>	<p>KKRx LNB77 (2:1)</p> <p>X=1 20 gl X=2 10 gl</p>	<p>□ by spray converter P.U. with excellent hiding power for flat surface, assembled furniture and chairs</p>
<p>Clear converter</p>	<p>KGAx LNB77 (2:1)</p> <p>X=2 50 gl X=1 20 gl X=4 5 gl</p>	

KROMOSYSTEM

TINTOMETRIC SYSTEM

GLOSSY CONVERTER		
White pigmented converter	<ul style="list-style-type: none"> □ KHR1 □ LNB110 (2:1) 	<p>□ by spray converter P.U. with excellent hiding power for flat surface, assembled furniture and chairs</p>
Clear converter	<ul style="list-style-type: none"> □ KDA1 □ LNB110 (2:1) 	

KROMOSYSTEM OLD PASTES



OLD KROMOPAST PRODUCT RANGE SOLVENT-BASED PASTES FOR KROMOSYSTEM

KMT 10 KROMOPAST WHITE	KMT 51 KROMOPAST RED GLICINE
KMT 20 KROMOPAST YELLOW	KMT 53 KROMOPAST RED OX
KMT 21 KROMOPAST LEMON C.	KMT 60 KROMOPAST BORDEAUX
KMT 22 KROMOPAST GOLDY YELLOW	KMT 70 KROMOPAST VIOLET
KMT 23 KROMOPAST YELLOW OX	KMT 80 KROMOPAST BLUE
KMT 40 KROMOPAST GREEN	KMT 90 KROMOPAST BLACK
KMT 50A KROMOPAST RED	

KROMOSYSTEM

New pastes for Kromosystem:

- **From 13 pastes to 16 (+ 2).**
- All color formulations has been updated considering the new 3 pastes
- Tintometric system has been updated to guarantee:
 - better color reproducibility
 - better covering power
 - better economic competitiveness
- the old system was constituted by 13 pastes
- the new system is constituted by 16 pastes + 2 pastes not included in the Kromosystem (to satisfy all the requests from the market)
- New available pastes are:
 - **KMT30:** bright orange paste. High coloring power. Suitable for strong color (from 10%). With lower % it is not guaranteed the resistance to the light.
 - **KMT25** yellow high competitiveness paste. Suitable for strong color (starting from 10%).
 - **KMT54** red high competitiveness paste.

KROMOSYSTEM

Product range completion. Pastes not included in Kromosystem:

□ LMT55:

- is the red paste KMT50A with a double pigment concentration. To obtain tones and coverage for the strong colors, where is required a resistance to light and a outdoor resistance also with low percentage of use.
- The LMT55 is qualitatively an excellent product. with a premium price

□ LMT91:

- this paste allows to minimize the error during the weighing phase, with a lower coloring power
- we advise against the substitution of KMT90 (deep black) with LMT91. Max suggested percentage: 20%

Our Color Center Service has completed the revision of the following formulations:

- RAL K7 SOLVENT SYSTEM
- NCS cascade (starting from end of April 2010)
- file spectro-photometer SOLVENT SYSTEM
- the NCS complete formulations will be available starting from 1 May 2010.

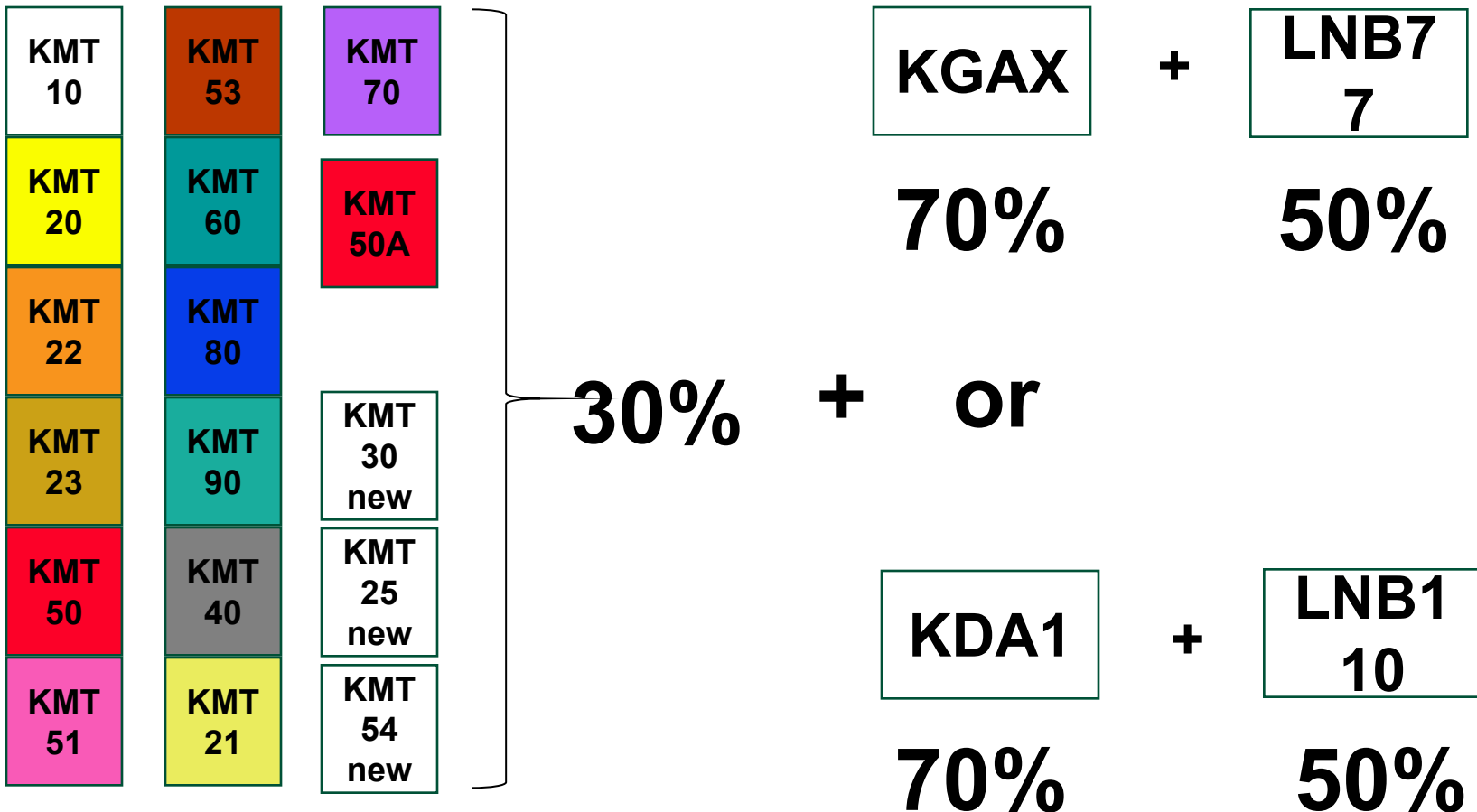
KROMOSYSTEM

NEW KROMOPAST PRODUCT RANGE SOLVENT-BASED PASTES FOR KROMOSYSTEM

KMT 10 KROMOPAST WHITE	KMT 51 KROMOPAST RED GLICINE
KMT 20 KROMOPAST YELLOW	KMT 53 KROMOPAST RED OX
KMT 21KROMOPAST LEMON C.	KMT 60 KROMOPAST BORDEAUX
KMT 22 KROMOPAST GOLDY YELLOW	KMT 70 KROMOPAST VIOLET
KMT 23 KROMOPAST YELLOW OX	KMT 80 KROMOPAST BLUE
KMT 40 KROMOPAST GREEN	KMT 90 KROMOPAST BLACK
KMT 50A KROMOPAST RED	KMT 54 KROMOPAST Red (high competitiveness)
KMT 30 KROMOPAST ORANGE (NEW)	KMT 25 KROMOPAST YELLOW (NEW)
Product range completion	
LMT55 RED concentrated	LMT 91 BLACK (for “cuts”)

KROMOSYSTEM

STRONG COLORS WITH NEW PASTES



KROMOSYSTEM

PASTEL COLORS WITH NEW PASTES

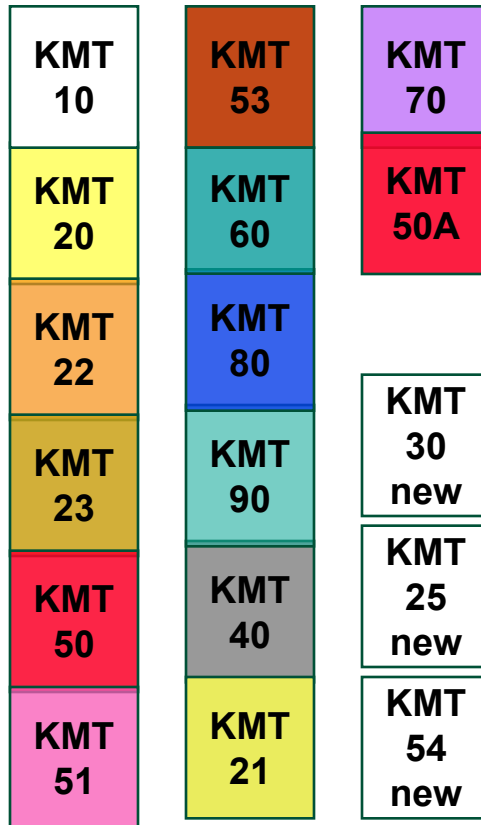
**KKRx
(matt)**

100%

**KHR1
(glossy)**

100%

+



0 to 7%

+

**LNB7
7**

50%

**LNB1
10**

50%

KROMOSYSTEM

TINTOMETER SCHEME

