

Sustainable - maximum protection - easy to process

Copper

Iron

Zinc

Steel

Aluminium

Glass

Rust

Stainless steel

Old coatings

Many hard plastics

and much more.

Power Coat 3 in 1



Primer and top coat in one

High solids (>70%)

Very high elasticity

1 component

High filling
power

8.8 m²/litr.

Very high
hiding power

Very high adhesive
strength

Can be processed at
-10°C to + 30°C

Residual material
reusable

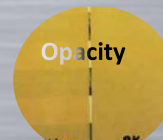
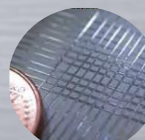
Very high stability

**The original
since 1987**

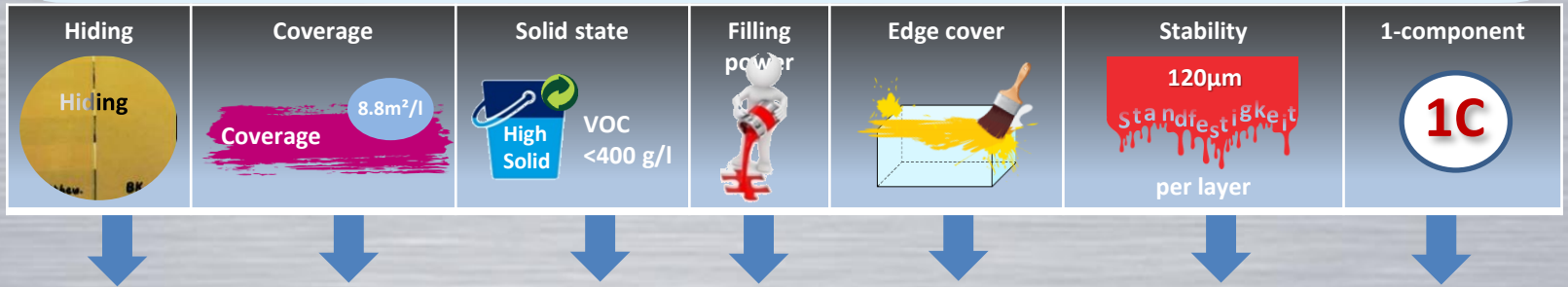
Rust protection paint

for painting, rolling, spraying and much more.

silk gloss

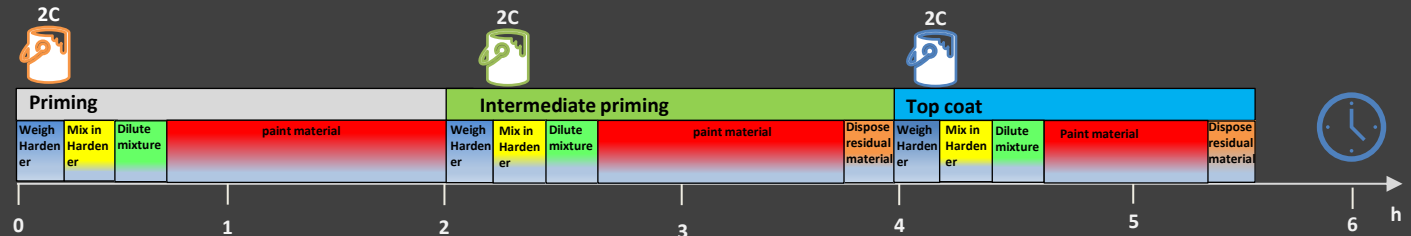


Influence of the material properties

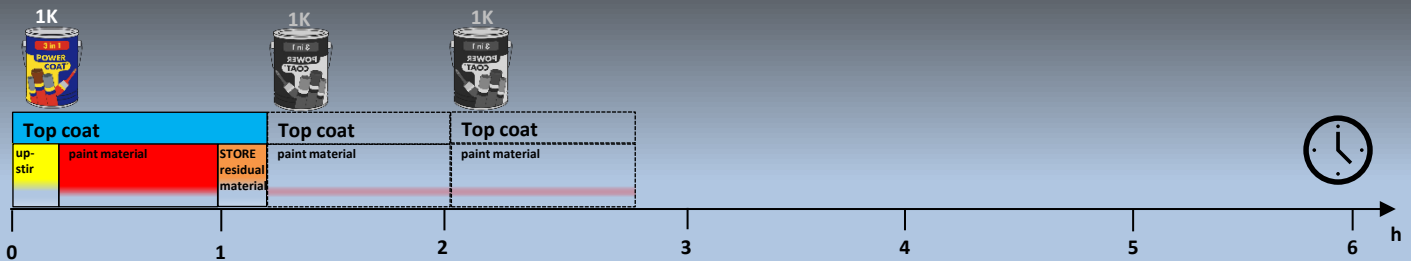


Painting process time frame

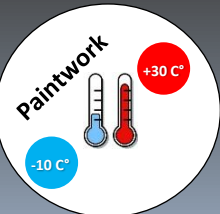
Industry-standard paintwork



Painting with 3 in 1



Temperature



3in1 can be processed in a temperature range from -10°C to +30°C.

Colour shades



Other non-stock colours are usually available within 3-5 working days.

Processing options



3in1 can be rolled, brushed, sprayed, flooded, dipped and painted using thick-film spray cans.

Container sizes



On request in container sizes of 0.75 l, 5 l, 19 l or 200 l drums or 0.5 litre Aerosol spray available.

Substrates



Any type of metal (and other substrates) can be coated with 3in1

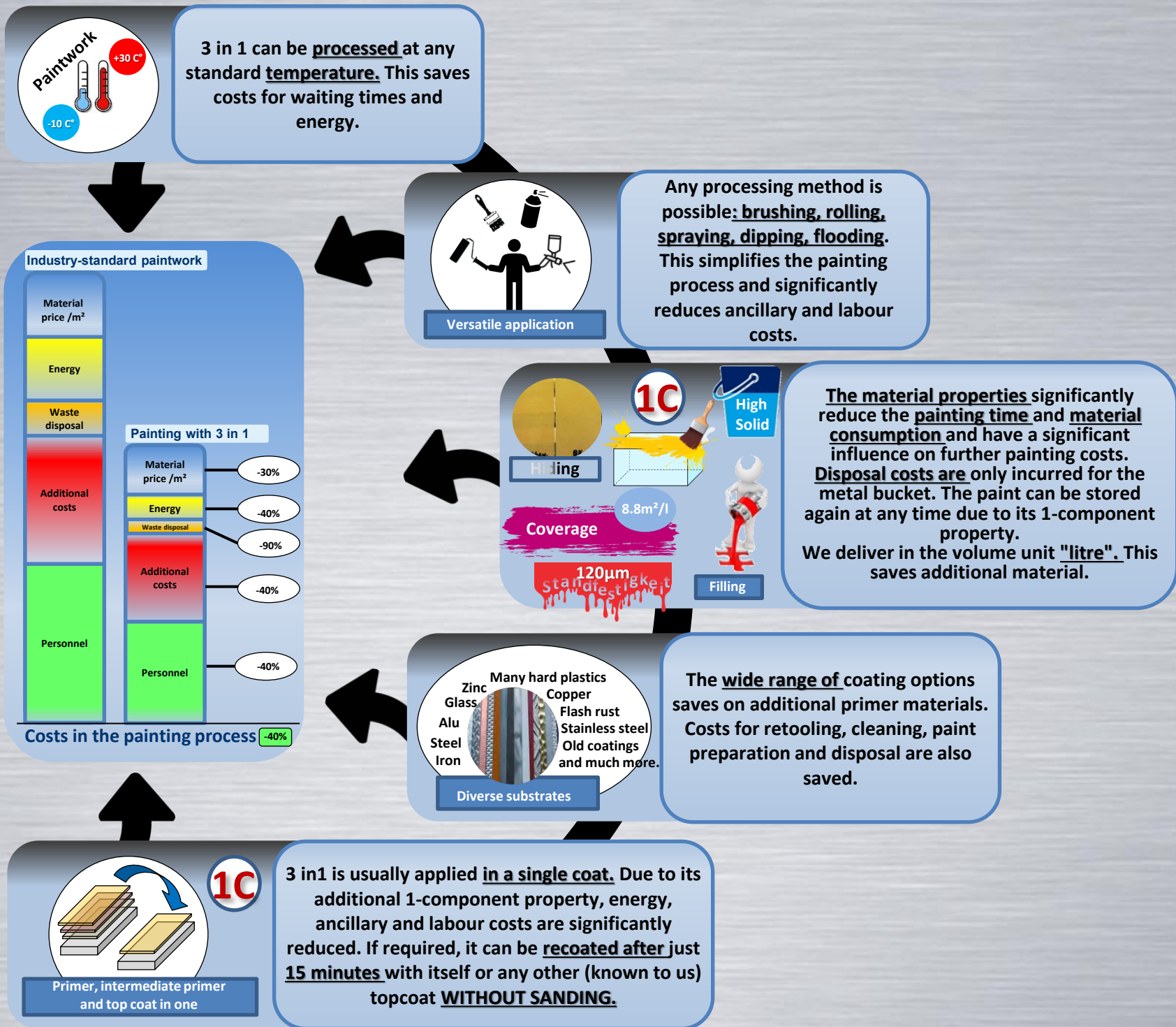
Influence of the processing framework

The use of Power Coat 3 in 1 can reduce painting times dramatically

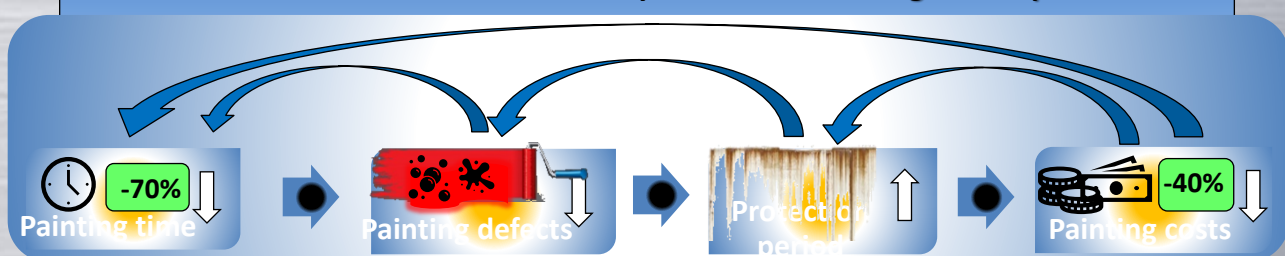
The single-layer coating and 1-component properties enable quick and easy processing.

At the same time, the high flexibility of the other influencing factors prevents delays and further accelerates the painting process. Even if you are painting multiple coats, you avoid the intermediate steps described above.

Your cost advantage in the process



The time and cost benefits result in your overall advantage in the process

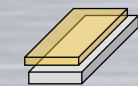


The particularly simple processing ensures:

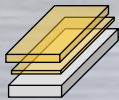
- a significant reduction in painting time
- a significant reduction in paint defects
- a significant reduction in painting costs
- a guarantee of fulfilment of the protective properties
- a simple repainting

Guarantee of a long protection period

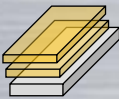
Corrosion protection recommendation



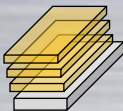
One colour coat Power Coat "3 in 1"
is already thick enough to ensure good corrosion protection.



1½ colour coats of Power Coat "3 in 1"
are the successful working methods of many of our customers in practice (e.g. preparing corners, edges, weld seams, etc., then completely coating all surfaces).



Two colour coats of Power Coat "3 in 1"
protect against heavy corrosion loads for up to 15 years.



Three colour coats of Power Coat "3 in 1"
offer the longest possible protection against the greatest atmospheric corrosion loads.

Recommendation according to the corrosivity categories of DIN-EN-ISO 12944

Corrosivity category	C 1				C 2				C 3				C 4				C 5				CX
	insignificant				low				moderate				strong				very strong				N/A
Protection period (in years)	L	M	H	VH	L	M	H	VH	L	M	H	VH	L	M	H	VH	L	M	H	VH	N/A
	<5	<15	>15	>25	<5	<15	>15	>25	<5	<15	>15	>25	<5	<15	>15	>25	<5	<15	>15	>25	>25
Dry film thickness (in µm)	>60	>60	>80	>160	>60	>80	>160	>160	>80	80-160	160-240	>240	80-160	>160	>240	>320	160-240	160-240	240-320	>400	>400
Number of paint coats	1	1	1	2	1	1	2	2	1	1-2	2-3	3	1-2	2	3	4	2-3	2-3	3-4	5	5
Surroundings	Inside				Inside Exterior				Inside Exterior				Inside Exterior				Inside Exterior				Inside Exterior
	Inside: Heated buildings with a neutral atmosphere: e.g. offices, shops, schools, hotels				Inside: Unheated buildings				Inside: Production rooms with high humidity (e.g. laundries, breweries, dairies)				Inside: Chemical plants, swimming pools				Inside: Buildings with constant condensation				Inside: Buildings with constant, extremely high condensation
	Exterior: Not applicable				Exterior: Rural areas				Exterior: Urban and industrial atmosphere				Exterior: Industrial/coastal atmosphere with moderate salt load				Exterior: Industrial/coastal atmosphere with high salt load				Exterior: Buildings in the offshore area

In order to achieve the expected protection durations in the corrosivity categories of DIN-EN-ISO 12944-6, we recommend the specified coating thicknesses on iron and steel. Rough, uneven substrates may require thicker layers.

In order to achieve faster curing at higher layer thicknesses, Power Coat Adhesionprimer Special or Power Coat "2-Kompo" can be used as an alternative to Power Coat "3 in 1" for priming and/or intermediate layers. For galvanised surfaces and high loads, we recommend Power Coat "2-Kompo" as a base coat; due to the galvanisation, a paint layer thickness of 80 µm less is sufficient. Other top coats can be used for certain surface requirements. For permanent exposure under water (fresh water, salt water, brackish water, soil), we recommend Power Coat "2K-Durasolid".

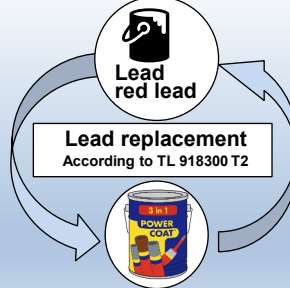
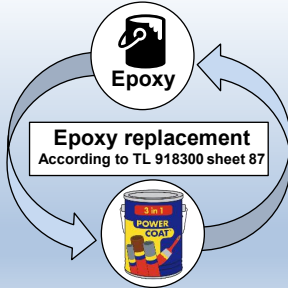
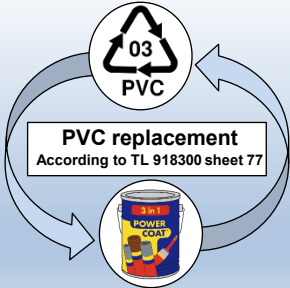
*A saturated colour layer corresponds to approx. 80 µm.

Overview of tests carried out for 3in1

Authorisations



Mat. no. 672.05



TL 918300

Condensation water

J.S.Cock AS
Nedre Rommen 3
0988 Oslo
Norway

DIN 55928 T 5
P 221159697

MPA NRW



Approval for steel structures and steel components (DIN 55928 T5 Tab.4)



Daimler-Chrysler release



Cert. no. Z2100814153003

Test mark. U 98 02 14153 001
TÜV PG 049
DIN 50021
DIN 53151
DIN 50017
DIN 50917 T1 (based on)
DIN 53210
RAL-ZU 18 (based on)



WSV authorisation



Mining licence

Hygiene Institute A 108 395-03-To Substance main group 4, substance subgroup 1, serial no. 42

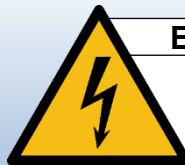


Norsok test M 501, Ed. 6, Sys 1,
4,200 hours of alternating test with
Ritz, UVA exposure, condensation,
Heat + 60°C, cold -20°C, salt-
spray mist test, intermediate
adhesion when repainting without sanding.



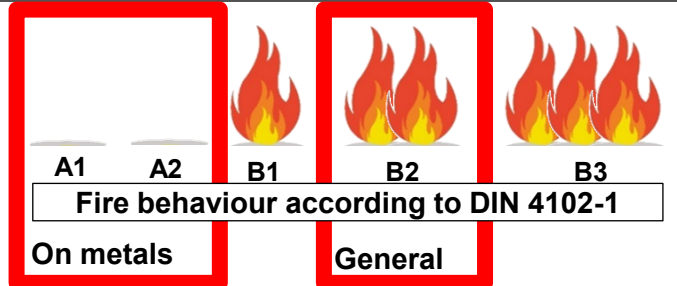
Food safe

Art. 3 para. 1c Regulation 1935/2004 EEC

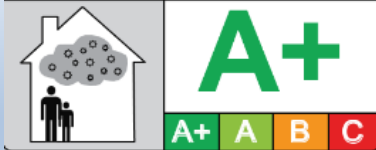


Electrostatic leakage resistance

RAL 7032 = 0.04×10^9 k-Ω
RAL 9006/9007 = 0.02×10^9 k-Ω



ÉMISSIONS DANS L'AIR INTÉRIEUR*
Emissionsklasse für die Innenraumluft*
Indoor air pollution classification*



DIN 51130 /
BGR 181

DIN 51097
GUV 18527

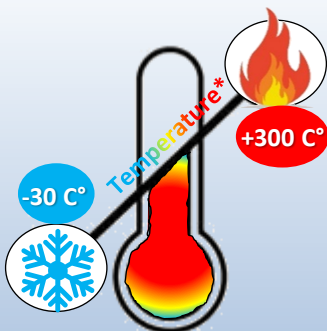
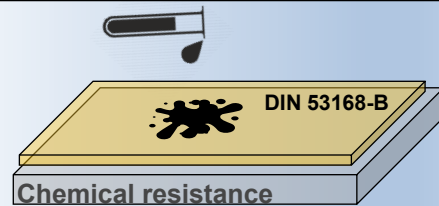
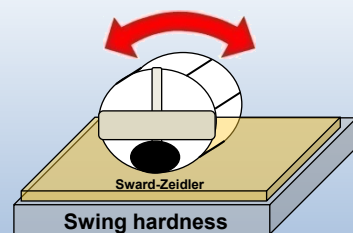
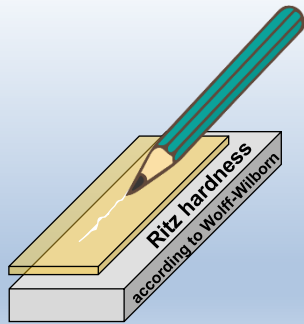
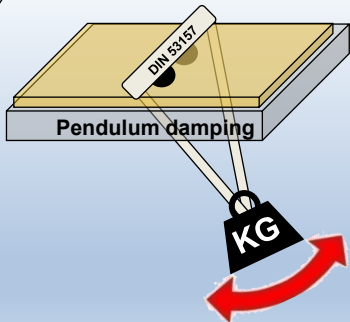
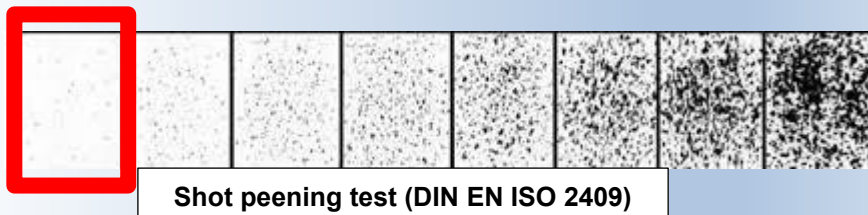
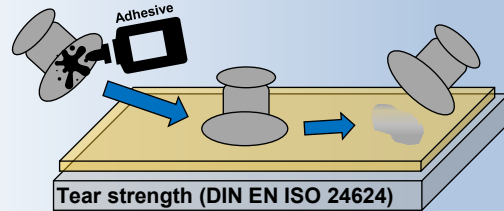
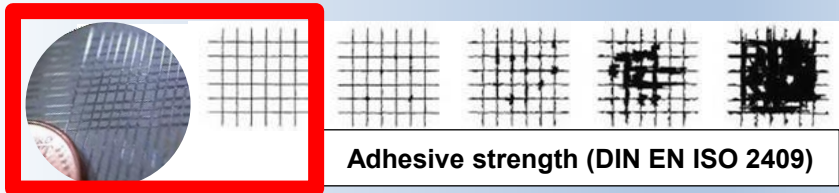
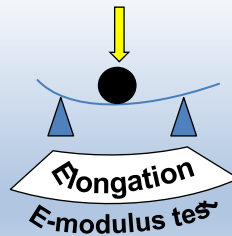


Resistant to saliva and perspiration

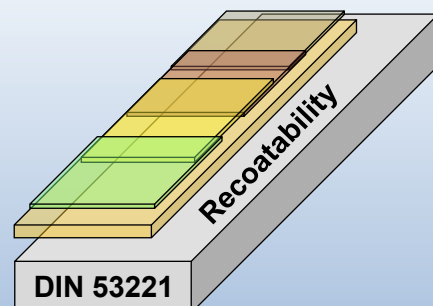
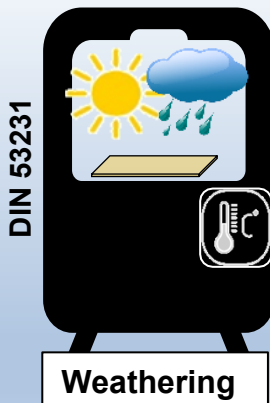
Tests of material properties

Overview of tests carried out for 3in1

Mechanical resistance properties

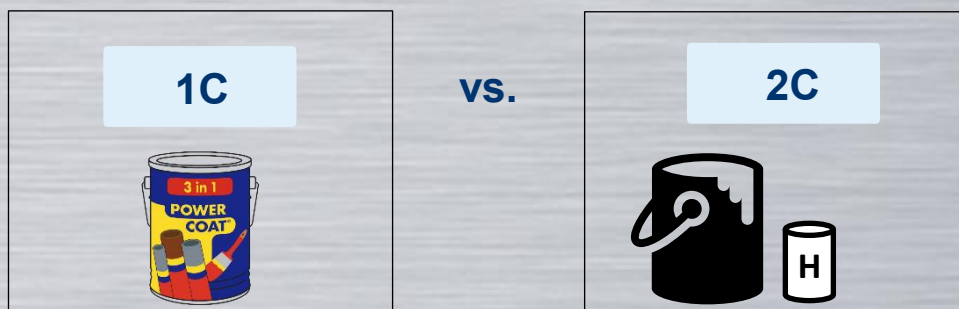


*Up to 150°C without effects
Up to 300°C WITHOUT loss of adhesion, colour change (slight to strong, depending on colour).
Softer colour film when warm.
Lower temperatures possible, but cannot be imaged by the tester.



Resistance properties to media

Comparison of Power Coat 3in1 and 2-Component corrosion paint



Type	Power Coat 3 in 1	Industrial standard
Possible overcoat time	Any time	2 hours to 1 day
Drying time from 20°C	Standard	Very fast
Intermediate sanding	Not necessary	Often necessary
Toxic ingredients	None	<ul style="list-style-type: none"> - Zinc compounds - Aromatics - Isocyanate
Storage stability	3 year (+ 5 years)	1-2 years
Processing time	Unlimited	2-4 hours
Application/ Drying temperatures	-10 to +30°C	+10 to +30C°
Reuse of leftovers	yes	no
Multi-layer with the same product	yes	no
Substrates	Nearly every substrate	Limited substrates per product
Pre-treatment requirements	Low	standard
Drying requirements	Very low	average