

## **2K Gloss Boat Ceramic**



Code	Colors
509	Colori a richiesta
B509	Binder per serie MCS

## **Description product**

Ultra High Solid polyacrylic enamel, extremely bright and durable, made with special high-quality raw materials, enriched with special additives that make the surface highly resistant to chemical and mechanical agents. Additionally, it imparts distinct characteristics to the coating, such as ease of cleaning, very high scratch resistance, and long-lasting brilliance. It is a two-component product with a non-yellowing aliphatic isocyanate curing agent to be mixed at the time of use. The product has specific features for use as a premium finish in the automotive, industrial bodywork, and marine sectors.



Mixing ratio		Vol	Weght (g)
Component A	S.509	-	100
Hardeners	H47 series	-	50
Thinner	T40 Series		>10 <20



Pot-Life at 20°C	
With hardeners H472 Slow-H4755 Medium	4 h
With hardener H477 Fast	3,5 h
The hight temperature to less the pot-life time	



Example mixing ratio tab					Quanti	ity to be	made			
Comp. A	g ±	100	150	250	300	500	600	800	1000	1500
Hardener	g ±	50	75	125	150	250	300	400	500	750
Thinner	g ±	10	15	25	30	50	60	80	100	150



Preparation of	the support
Raw Iron	Sandblast or sand the support with P240-P320 paper, degrease with T90 series, finally apply 2-3 coats of Epoxy Primer as an anti-corrosive. Finally complete the work by applying 2 coats of 2K Gloss Boat Ceramic.
Old painting	Sand the support with P240-P320 paper, degrease with T90 series, apply 1 maximum 2 coats of Epoxy Primer as an insulator, finally complete the work by applying 2 coats of 2K Gloss Boat Ceramic.
Aluminim and light alloys	Sand the support with very fine abrasive fibre, degrease with T90 series, apply 1 coat of Epoxy Primer as a primer, taking care to create a low thickness. Finally complete the work by applying 2 coats of 2K Gloss Boat Ceramic.
Galvanized still	Sand the support with very fine abrasive fibre. Degrease the surface with our phosphating degreaser with X550. Apply a light coat of Epoxy Primer as a primer, taking care to create a light coat. Finally complete the work by applying 2 coats of 2K Gloss Boat Ceramic.
Generic plastics	Sand with very fine abrasive fibre. Then clean and degrease with T90 series, then apply a light coat of Plastic Primer 8700 as an adhesion promoter, alternatively it is also possible to use Epoxy Primer as a primer. Complete the job by applying 2 coats of 2K Gloss Boat Ceramic. Important note; It is mandatory to always carry out a specific adhesion test on plastic. If the test fails, it is advisable to repeat it, taking care to flame the surface before repeating the test. If this operation is not successful either, it is necessary to send a sample of the plastic to be treated to our R&D laboratory so that we can evaluate the right cycle to apply.



Tools	Ø
Gravity Air Gun at high perfomance	1,3-1,4
HVLP Gravity Air Gun	1,3-1,4



Layers	
Full coats	2

By full coats we mean full coverage application starting from the 1st coat.















Available hardeners						
Slow	Medium	Fast				
H402	H405	H407				
H502	H505	H507				
Hardners packaging						
12X0,5L - 4X2,5L	12X0,5L - 4X2,5L	12X0,5L - 4X2,5L				



Application		
Spray pressur (to the gun)	Bar	2,0-2,2
Distance from support	Cm	15-20
Thickness for layer	μm	>50



Dryng	20°C	60°C	IR
Time between coats	10'-15'	_	ND
Repaintable *	15'-20'	-	ND
Time first start of paint curing	10'-15'	-	ND
Dry dust	30'-40'	-	ND
Dry to the touch	50'-60'	20'-25'	ND
Deep drying	10-12 h	45'+10'	ND
Dry for assembly	9-10 h	45'+10'	ND
Polischability	9-10 h	45'+10'	ND
Maximu chemical resistance	7 gg	45'+1g	ND
40 041 15 1111 1 1			

After 24 hours, if an additional coat of paint is needed, sanding the surface is required.



Direct application on painted surfaces	Yes / No	
2K Polyester putty's and primers	Yes*	
2K Acrylic Primers	Yes	
2K Acrylic Primers	Yes	
Old strong painting	Yes	
Alchydic paints	NO	
We recommend isolating first with our 2K Epoxy Primer 680 series		



Repaintable with	Yes / No
Fondi acrilici 2K a solvente	Yes
2K Acrylic Primers	Yes
1K acrylic base matt (solvent & waterborne)	Yes
2K Acrylics and Polyurethane finish	Yes
1K Nitrocellulose and Alchyd finish	Yes



Packaging	Box
1Kg (upon request)	6 Pz
5Kg (upon request)	4 Pz
20 Kg (upon request)	1 Pz
0,7 Kg Binder per MCS	6 Pz
3,5 Kg Binder per MCS	2 Pz
14 Kg Binder per MCS	1 Pz







Physical properties	
Appearance product	Liquid
Appearance dried	95-98 gloss (indicative)
Smell	Solvent typicall
Specific weight colors	1,3 Kg./L (± 5%) (medium)
Specific weight binder	1,0 Kg./L (± 5%)
Dry Residue	>60<55% (medium)
Paint coverage m <sup>2</sup> /L	8-10 m <sup>2</sup>
V.O.C. (Binder)	VOC (Dir. 2010/75/CE):42,94%-428,54 gr/L
V.O.C. (prodotto finito)	ND



Storage time	>5°C <35°C
Shelf-Life	2 anni



Precautions and general safety



## Precautions and individual safety

Before use, read the safety data sheet carefully.

Use appropriate respiratory protection. Setra Vernici recommends the use of a respirator for fresh air supply.



## Warnings

The information contained herein is based on laboratory tests and our current knowledge. We reserve the right to make changes to the product's characteristic data in relation to technological progress or production developments. Due to factors beyond our control during the product's application phase, the information provided here does not constitute a warranty for specific product specifications or its suitability for a particular application. In the event of proven liability, it will be limited to the value of the products supplied and used by the user. However, we guarantee the consistency of quality in our products. We are responsible for the product only within the framework of the General Sales Conditions. This Technical Data Sheet supersedes all previous versions.















F.A.Q.	Causes	How to avoid the defect	Remedy
The film shows the presence	Condensation water present in the compressed air	Check and periodically maintain the air system by	Wait for the film to be completely dried, then:
of water bubbles on the surface of the finish.	system; Existing water on the substrate not removed before	purging any traces of existing water inside the compressor and the system itself;  Equip the system with moisture-filtering and/or air dryers;  Avoid applications in adverse climatic conditions such as particularly humid and drizzly days, especially if the application is carried out outside the spray booth.	1) In more extreme cases: sand and prepare the object for repainting with the finish;      2) In less evident cases: sand with P1200-P1500 and proceed with polishing.
	painting; Pre-existing water-based primer or base not per-		
	fectly dry and/or compatible with the finish;		
	Water splashes from sources outside the painting process accidentally deposited on the film.		
The film shows the existence of areas with more or less	This type of defect can occur immediately after painting or even after a more or less short period.	Adhere scrupulously to the thicknesses indicated in the technical data sheet of the preparation primers used;	Wait for the film to be completely dried, then:  1) In more extreme cases, repainting of the object is necessary after appropriate sanding of the paint film;  2) In less evident cases, polishing of the film
extensive reduced gloss compared to the overall	In cases where the defect occurs immediately, the main causes could be:		
result.		Wait before painting with the finish until the substrate is perfectly dried;	
	Inconsistent air pressure and/or incorrect distance between the substrate and the airbrush;	Use high-quality preparation primers; it is empha-	is sufficient, using conventional polishing cycles.
	2. Use of solvents and/or catalysts that are too fast and do not allow the absorption of spray fumes;	Do not expose the freshly painted substrate to	
	3. Malfunctioning of the spray booth ventilation system;	irregular heat sources such as hot air flows di- rected directly onto a freshly painted area of the substrate.	
	4. Substrate absorption due to the use of aggressive diluents and/or catalysts.		
	If the defect appears in the short to medium term, the causes may be:		
	When the affected areas coincide with areas pre-		
	treated with putty and/or primers, probable absorp- tion of the substrate cycle caused by too high a thickness and/or not perfectly dried.		
The dried film has an un-	Spray pressure too low;	data sheet regarding the size of the nozzle and the air pressure;	When the film is totally dried:
levelled and smooth surface with the typical unsightly	Application of paint layers that are too dry and do not sufficiently wet the support;		Sand the film with very fine paper (P1500-P2000), complete by polishing the support with the usual polishing cycle;      In cases that are not particularly obvious and on surfaces that are not particularly large, it is possible to directly polish the film using our Denim disc combined with our One-Shot paste;
appearance of orange peel.	High distance between airbrush and support;	Use catalysts and thinners appropriate for ambient temperatures;	
	Adjustment of the airbrush in relation to the quantity of paint to be sprayed;	peratures, a maximum of 25/30°C, using thinners and slow catalysts;  Apply the first coat immediately, wetting the support well;	
	Failure to respect the drying times between the first coat and the second;		
	Application of the first coat too dry (so-called anchoring half coat);		3) In particularly obvious cases it will be necessary to sand with P800 and repeat the
	Use of thinners that are too fast;		painting;
	Operating temperature too high;		
	Excessive and/or insufficient paint thickness;		
Presence of paint drips which	Application of excessive product in one solution;	Respect the thicknesses recommended in the	Wait until the film is completely dry, then:
normally occur on vertically painted surfaces.	Excessive dilution;	the product to be applied as indicated in the tech-	Sand the area involved in the dripping, smoothing the surface until the dripping is completely eliminated and proceed with
painted surfaces.	Pressure too high;		
	Failure to wait for the correct drying times between hands;		polishing;
	Hardener and/or Thinner too slow based on sur- rounding ambient temperatures;	nical data sheet; Use catalysts and thinners indicated as suitable and	
	Airbrush incorrectly adjusted;	suitable for environmental temperatures;	
	Airbrush nozzle too large;	Respect the catalysis and dilution percentages indicated in the technical data sheet;	

















F.A.Q.	Causes	How to avoid the defect	Remedy
Peeling of the paint film from the underlying substrate.	If the detachment is partial and non-uniform:	Thoroughly clean the sanded primer using specific	In this case, it is necessary to redo the work:  1) Sand until obtaining a perfectly smooth surface ready for painting and repeat the painting. Normally, it is not necessary to reapply the primer as well, but if during the sanding process the circumstance of uncovering the substrate occurs, it will be necessary to reapply the primer, at least in the areas that have been uncovered, to avoid the onset of other issues.
	- The primer involves sanding but has not been sanded;	and high-quality degreasers, such as our T90 series;	
	- The primer has been sanded with an unsuitable fine-grade paper for the type of finish;	Adhere to the drying times between coats and achievable thicknesses as indicated in the technical data sheet;	
	- The primer has been sanded, but too much time has elapsed between sanding and final painting;	Pay attention to the type of primer used; some primers have very precise repaint times;	
	- The primer has not been uniformly degreased and/or unsuitable or low-quality products have been used for this purpose.	Follow the sanding cycle according to the recommended grits specified in the technical data sheet of the chosen primer;	
	If the detachment is total and uniform:	Do not apply on excessively hot surfaces, and do not expose the freshly painted object to strong heat sources.	
	- Application of the finish under adverse climatic conditions such as excessive heat or high humidity;	ocarocc.	
	- Prolonged drying times between coats or excessive total finish thickness.		
The film appears hazy and not perfectly glossy.	Presence of excessive humidity during or immediately after application;	Avoid application in unfavorable weather conditions;	Attend for the film to be completely dried, then:
	2. Unsuitable thinner;	2. Do not wet the floor before painting;	1) Sand the area, preparing it for the polishing cycle, and proceed with the polishing
	3. Exposure of the painted object to sources of excessive air;	3. Use only thinners indicated as suitable in the technical data sheet;	itself;
	4. Exposure to drying with an IR lamp at excessive temperature or with a distance from the substrate that is too short:	4. Do not expose the painted surface to sources of excessive and/or localized heat or forced air;	In particularly evident cases, repeat the painting, taking care to follow the above instructions.
	5. Exposure of the substrate to localized heat sources;	5. Ensure that the compressed air system operates correctly and consistently.	
	6. Application at incorrect pressures.		
The dried film shows the presence of more or less	Excessively high thickness applied without respecting the proper drying times between coats;	1. Adhere to the spraying viscosity specified in the technical data sheet;	Wait for the film to be completely dried, then:
dense micro-craters, random- ly distributed, which are	2. Use of overly fast solvents based on ambient temperatures;	2. Adhere to the drying times between coats;	In more extreme cases, repainting of the object is necessary after appropriate sanding of the paint film;
sometimes very evident, and sometimes, to be noticed, it	Use of a Hardener that is too fast based on ambient temperatures;	3. Adhere to the dilution and catalysis percentages indicated in the technical data sheet;	2) In less evident cases, polishing of the film is sufficient, always after sanding with P1500
is necessary to observe the painting very carefully.	4. Excessive oven temperature during and/or after the clearcoat application;	Adhere to the recommended thicknesses;     Use only catalysts and thinners indicated in the	-P2000 sandpaper.
	5. Exposure of the object to the sun immediately 6. after the clearcoat application;	6. technical data sheet;     7. Adhere to the temperature and baking times specified in the technical data sheet;	
	7. Too short drying times between coats;	8. Use only curing aids specified in the technical	
	8. Poor dilution of the product.	data sheet (do not use other untested aids not provided for).	
The film shows the existence of small crater-shaped pinholes (silicones); their presence is sometimes very apparent, while in other cases, only a few sporadic occurrences are detected.	Acetic silicone has been inadvertently used inside or in areas surrounding the spray booth;	The use of any product containing or potentially containing silicone must be completely banned from the spray area (preferably from the entire workshop);	Wait for the film to be completely dried, then:
	Presence of oil or other greasy contamination in the compressed air line;		Sand the surface until complete leveling of imperfections, degrease with an anti- silicone like our T905, and proceed with
	3. External air intakes of the spray booth positioned in a way that draws impurities from the outside, such as exhaust gases or residues expelled from diesel heating system boilers;	Perform regular maintenance of the compressed air system, paying particular attention to possible oil leaks from the compressor unit's engine;     Strongly recommend the use of final-stage	repainting;  2) In particularly challenging cases, it is recommended to use an anti-silicone additive to be added to the paint mixture.
	4. Use in the workshop of products containing silicone, such as polishers, perfumes, and/or	compressed air filters and filters before the airbrush air intake;  4. Thoroughly clean the painting substrate using strictly purpose-specific solvents and degreasers of proven quality.	
	cleaning detergents; 5. Use of unsuitable degreasing solvents;		
	6. Use of dirty, silicone-contaminated cloths.		

















F.A.Q.	Causes	How to avoid the defect	Remedy
Presence on the surface of areas covered with particles and spray vapor that the film failed to reabsorb;	Operating temperature too high; Use of hardeners and/or thinners too fast;	Use hardeners and thinners appropriate for actual operating temperatures;	When the film is completely dried:  1) In the most extreme cases, an application
	Insufficient spray booth aeration;	Use only hardeners and thinners indicated in the data sheet;	of a final coat is necessary after appropriate sanding of the paint film;
	Persistence of the artifact inside the spray booth oven even after the vacuum function has been turned off and the booth doors have remained closed;	Keep the spray booth in perfect working condition, especially the fume extraction system;  Never leave the newly painted item inside the spray booth with the doors closed and suction off;	2) In less obvious cases, a polishing of the film is sufficient, again after sanding with P1500-P2000 paper;
More or less obvious lines	The last pass performed for sanding was done with	Strictly adhere to the steps of paper from coarser to	When the film is completely dried:
can be glimpsed in the sub- strate.	too coarse a grit;	finer scaling by 100P maximum;	1) If the defect is not very evident, finely
Strate.	Some sanding residue remained between the disc and the backing causing deeper scratches;	Use quality abrasive papers that comply with the FEPA table/scale that ensure their grit conforms to what is indicated on the back;  Frequently check that the sanding disc is free of	sand the affected area preparing it for re- painting and proceed with the application of
	The grit scaling passes between sandpaper passes were not respected;		the clear coat always respecting the recommended thicknesses;  2) In cases where the lines are too deep it will be necessary to repeat the work by also applying a filler primer, sand appropriately preparing the surface for repainting as indi-
	Although the grit size was respected, the marks remain because the sandpaper used did not conform to what was indicated on the back (so-called grainy papers);	clogging or sanding residue;  Check that the last sanding pass was made with a grit size not below P500;	
	Insufficient thickness of the matte base, little thick-	Apply the correct thickness of matte base coat as indicated in its technical data sheet;	cated in the previous point;
	ness;	Always apply on perfectly dried primers;	
Wrinkled areas of the paint film are present in some	The nature of the paint compound of the substrate cannot be overpainted with this product;	Verify that the substrate and finish are compatible for overpaintability with this product;	When the film is completely dried:  1) Finely sand the wrinkled area and polish with a conventional polishing cycle;  2) In cases which consist of situations that are too obvious, it is necessary to sand the painted substrate, preparing it to be isolated with an epoxy-based insulating primer such as our Epoxy Primer 680 series, then repeat the painting cycle as if starting from scratch;
areas.	The substrate is not perfectly dry;	Use only the solvents indicated as suitable for diluting this product;  In the case of critical but executable situations, use the caution to give light coats by spacing them out with sufficient time for the solvent to evaporate so that it does not attack the substrate;	
	The substrate is too thick and not perfectly dried even in depth;		
	Use of unsuitable dilution solvents that are too aggressive;		
	If the curling is confined to the joint areas between old and new paint, weakening of the pre-existing paint layer caused by sanding that has excessively reduced its thickness, making it easily attacked;	If the phenomenon occurs between the first and second coats, reduce the flash off time, evidently the temperatures are too high and the crosslinking of the first coat reaches too advanced a stage;	
	- If the phenomenon occurs between the first and second coats, too much time has elapsed between application between the first and second coats, a phenomenon that is more common in warm months or when hardeners and solvents are used too quickly;		
Particles of various sizes	Dirty spray booth;	Keep the environment clean and dust-free;	Wait for the film to be totally dried, thereafter:
sometimes embedded in the	Oven filters dirty;	Change spray booth filtration systems periodically;	
paint, sometimes deposited on top of the paint.	Operator's clothing soiled;	Use clean clothing, preferably if the operator uses quality Tyvek suits that do not shed lint (specific to painting);	1) In the most extreme cases, repainting of
	Contaminated product;		the artifact is necessary after appropriate sanding of the paint film;
	Unfiltered product;	Thoroughly clean the substrate before painting; Filter the compound before use;	2) In less obvious cases, a polishing of the film is sufficient, again after sanding with P1200-P1500 paper;









