



SURFACE PREPARATION MATERIALS

Üniastar
Silastar
Saten Alçı Astarı
Macunart
İnce Akriilik Macun
Kalın Akriilik Macun
Küf Temizleyici

Surface Preparation

Surface Preparation

Surface preparation work is very important to guarantee the very best results from any paint application. The substrate should be treated according to the type of coating that will be applied; defects in architectural details should be corrected and all necessary water insulation precautions should be taken beforehand. The surface must be completely cleaned from old and loose paint layers into a clean, dry and sound condition. If necessary; surface cracks should be filled with the appropriate repair materials and the surface should be evened out. A primer should be applied before the very last layer of coating in order to increase the adhesion and durability of the final coat. The surface preparations should be properly carried out to attain a smooth looking and long lasting paint application.

Weather Conditions

Coating materials should not be applied in extremely hot weather, under glaring sun, during strong wind, fog, high relative humidity, imminent rain. The air and substrate temperature

should not be below 5°C during application.

Surface Cleaning

The surface must be completely cleaned from old and loose paint layers into a clean, dry and sound condition. If necessary, all areas should be sandpapered prior to the application. Water with detergent can be used to clean oils and grease from the surface, high pressure water jets can be used to clean excessively dusty areas. Coating applications should not start until the surfaces have dried thoroughly.

Moisture

Excessive moisture may decrease the adherence of the coating to the wall and cause blistering, flaking and mould formation. In some situations the moisture could be the result of a structural problem. Problems caused by leaking pipes or moisture diffusion from soil should be eradicated before the plaster or paint application takes place. Failure to take the effective measures will eventually cause the last layer of coat to blister. Problems caused by insufficient water insulation will not only result in a poor ap-

pearance but also harm the building structure.

Surfaces With Older Paint

If the existing paint has swollen or flaked off, the areas affected should be sandpapered. Kale Kalın / İnce Akrilik Macun can be used to fill cracks and even the surface. Surfaces with older paint or very dirty surfaces should be primed with Kale Üniastar or Silastar. Mouldy surfaces, surfaces with older paint should be cleaned with a wet cloth before any application, taking care not to disperse the mould. Lastly, Kale Küf Temizleyici (Mildew and Algae Cleaner) should be applied to the surface. The coating application can be made after the surface dries.





Primer Color Suggestions

Both in interior and exterior usage, choosing the primer color similar to the color of the coating will contribute to hiding power of paint and plaster as well as leading to spending of less effort during application. In the below stated table, you may find our suggestions for primer colors to be used under paint and plaster on exteriors.

Primer Color	Primer Code	Exterior Paint / Plaster Color Code
	800	4011 - 4021 - 4031 - 4041 - 4042 - 4091 - 4112 - 4121 - 4131 - 4191 - 4201 - 4202 - 4381
	3013	4012 - 4013 - 4014 - 4022 - 4023 - 4024 - 4034 - 4194
	3033	4032 - 4033
	3035	4025 - 4035 - 4046
	3054	4044 - 4054 - 4055 - 4064 - 4065 - 4066 - 4074 - 4075 - 4076 - 4084 - 4094 - 4104
	3062	4052 - 4062 - 4063 - 4071 - 4072 - 4073
	3081	4043 - 4051 - 4053 - 4061 - 4081 - 4082 - 4083 - 4092 - 4093 - 4101 - 4102 - 4103 - 4111
	3105	4045 - 4056 - 4085 - 4086 - 4095 - 4096 - 4105 - 4106
	3132	4113 - 4122 - 4123 - 4132 - 4133 - 4141 - 4142 - 4151 - 4171 - 4172
	3135	4115 - 4125 - 4126 - 4135
	3153	4114 - 4124 - 4134 - 4143 - 4144 - 4152 - 4153 - 4154 - 4163 - 4164 - 4173 - 4174
	3161	4161 - 4162
	3175	4116 - 4136 - 4145 - 4146 - 4155 - 4156 - 4165 - 4166 - 4175 - 4176
	3185	4015 - 4016 - 4026 - 4036 - 4185 - 4186 - 4195 - 4196 - 4235 - 4236 - 4385 - 4386
	3222	4192 - 4221 - 4222 - 4371
	3223	4203 - 4204 - 4223 - 4224 - 4372 - 4373 - 4374
	3225	4225 - 4226
	3232	4181 - 4182 - 4183 - 4193 - 4231 - 4232 - 4233 - 4382 - 4383
	3234	4184 - 4234 - 4384
	3375	4205 - 4206 - 4375 - 4376

NOTICE! Due to printing techniques, there may be differences between color tones shown here and emerged after application.

5310 Üniastar

Plaster and Paint Primer



Description

Acrylic emulsion based, pigmented primer, suitable for priming the surfaces on which any type of water based decorative coatings will be applied.

Fields of Application

Prior to emulsion based coating application on all kinds of exterior mineral surfaces such as concrete, plaster and cement panel etc., and on old painted surfaces.

Properties

- Fills hair cracks, reinforces the substrates, increases the adhesion of surface coating.
- Pigmented; provides hiding.
- Reinforces the substrates, increases the adhesion of surface coating.
- Decreases paint consumption by decreasing the absorbency of the substrate.
- Solvent free and practically odourless.
- Water thinnable and ecologically compatible.

Application

- The substrate must be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion. The surface should be made sound, clean and dry. Cementitious substrates must be cured. All water insulation precautions should have been taken prior to application. Cementitious substrates must be cured.
- Sand glossy and/or solvent based painted surfaces to improve adhesion and remove the occurring powder.
- If necessary, the surface cracks should be

filled and the substrate should be evened with Kale İnce / Kalın Akriilik Macun, Kale Macunart or Kalekim Tamirart.

- Thin with clean water Üniastar with clean water up to 1/1 ratio in volume mix thoroughly and apply using a brush, roller or spray system. For application on gypsum panels or putty surfaces thin at a ratio of 1 / 2 - 3 by volume to ensure the best possible satin texture.
- Wait for a minimum of 6 hours before applying the final coat.
- Clean the tools with water.
- Ensure that the air and surface temperatures are above 5°C and the surface is rain free during application and 24 hours following the application.
- Do not apply in extremely hot weather, under glaring sun, during strong wind, fog, high relative humidity and imminent rain or frost.
- Dampen the hot surfaces before the application.

- Not suitable for application on horizontal surfaces exposed to rain or moisture.

Safety Advices

- S2 Keep out of the reach of children.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed, seek medical advice.

Storage

- Store between 5 - 35° C in its unopened pail.

Packaging

- 4 kg. and 25 kg. pails
- 4 kg. packages packed together in 2s.



Technical Properties

(at 23°C and % RH)

General Data

Colours	Available in white and 19 colours, tintable by using Renk Ustasi
Composition	Acrylic emulsion based
Thinner	Water
Density	Approx. 1.69 gr/cm ³

Application Data

Application Temperature Range	(+5°C) - (+35°C)
Drying Time	Ready for the application of the final coating after 6 hours. Lower temperatures and/or higher relative humidity will lengthen the drying process.
Consumption	Depending on the evenness and the porosity of the surface approximately 0.175 kg./m ²
Application Tools	Brush, roller, airless spraying equipment

Performance Data

Service Temperature	(-30°C) - (+80°C)
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Certificates of Quality: TSEK

5335 Silastar

Silicone Enhanced Primer



Description

Silicone enhanced, acrylic emulsion based, pigmented primer with a high penetration and water proofing power for priming the surfaces on which any type of water based decorative coating will be applied.

Fields of Application

Prior to emulsion based coating application on all kinds of porous, highly absorbent surfaces like concrete, plaster, gypsum, gypsum panel and putty etc., and on old painted surfaces.

Properties

- Silicone content enables deep penetration under the surface reducing water absorption.
- Pigmented; provides hiding.
- Reinforces the substrates, increases the adhesion of surface coating.
- Decreases paint consumption by decreasing the absorbency of the substrate.

- Solvent free and practically odourless,
- Water thinnable and ecologically compatible.

Application

- The substrate must be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion. The surface should be made sound, clean and dry. Cementitious substrates must be cured. All water insulation precautions should have been taken prior to application.
- Sand glossy and/or solvent based painted surfaces to improve adhesion and remove the occurring powder.
- If necessary, the surface cracks should be filled and the substrate should be evened with Kale İnce / Kalın Akrylic Macun, Kale Macunart or Kalekim Tamirart.
- Thin Silastar with clean water up to a maximum of 10% by volume and apply in a single

- coat using a brush, roller or spray system.
- Wait for a minimum of 6 hours before applying the final coat.
- Clean the tools with water.
- Ensure that the air and surface temperatures are above 5°C and the surface is rain free during application and 24 hours following the application.
- Do not apply in extremely hot weather, under glaring sun, during strong wind, fog, high relative humidity and imminent rain or frost.
- Dampen the hot surfaces before the application.
- Not suitable for application on horizontal surfaces exposed to rain or moisture.

Safety Advices

- S2 Keep out of the reach of children.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed, seek medical advice.

Storage

- Store between 5 - 35° C in its unopened pail.

Packaging

- 2.5 lt. and 15 lt. pails
- 2.5 lt. packages packed together in 2s.



Technical Properties

(at 23°C and % RH)

General Data

Colours	Available in white and 19 colours. Tintable by Renk Ustasi
Composition	Acrylic emulsion based
Thinner	Water
Density	Approx. 1.51 gr/cm ³

Application Data

Application Temperature Range	(+5°C) - (+35°C)
Drying Time	Ready for the application of the final coating after 6 hours. Lower temperatures and/or higher relative humidity will lengthen the drying process
Consumption	Depending on the evenness and the porosity of the surface approximately 0.090 lt./m ²
Application Tools	Brush, roller, airless spraying equipment

Performance Data

Service Temperature	(-30°C) - (+80°C)
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Certificates of Quality: TSEK

5337

Saten Alçı Astarı

Satin Plaster Clear Primer

Description

Acrylic emulsion based, ready to use, unpigmented primer for priming the surfaces on which any type of water based paint will be applied.

Fields of Application

Prior to emulsion based coating application on all kinds of porous, highly absorbent and / or unsound mineral surfaces such as concrete, mortar, gypsum, gypsum panel, putty etc., and on old painted surfaces.

Properties

- Penetrates deeply to the substrate thanks to its filler free structure, reinforces the substrate and increases the adhesion of surface coating to the substrate
- Decreases paint consumption by decreasing the absorbency of the substrate.
- Prevents cracking of coating in very hot weather due to quick drying
- Ready to use, rapid drying, easy to apply.
- Solvent free and practically odourless,
- Water thinnable and ecologically compatible.

Application

— The substrate must be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion. The surface should be made sound, clean and dry. New cementi-

tous substrates must be cured at least 28 days before application. All water insulation precautions should have been taken prior to application.

- Sand glossy, solvent based painted surfaces to improve adhesion and remove the occurring powder.
- If necessary, fill the surface cracks and even the substrate with İnce / Kalın Akrilik Macun, Macunart or Kalekim Tamirart.
- Mix Saten Alçı Astarı thoroughly before application.
- Apply to the surface without thinning using a brush, roller or spray system.
- Apply the coating material 6 hours after the application of Saten Alçı Astarı.
- Clean tools with water.
- Ensure that the air and surface temperatures are above 5°C and the surface is rain free during application and during the 24 hours following the application.
- Do not apply in extremely hot weather, under glaring sun, during strong wind, fog, high relative humidity, imminent rain or frost.
- Not suitable for application on horizontal surfaces exposed to rain or moisture.

Safety Advices

- S2 Keep out of the reach of children.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed, seek medical advice



Storage

- Store between 5 - 35° C in its unopened barrel.

Packaging

- 5 lt. and 20 lt. plastic barrels.
- 5 lt. packages packed together in 2s.

Technical Properties

(at 23°C and % RH)

General Data

Colours	Clear
Composition	Acrylic emulsion based
Thinner	Water

Application Data

Application Temperature Range	(+5°C) - (+35°C)
Drying Time	Ready for the application of the final coating after 6 hours. Lower temperatures and/or higher relative humidity will lengthen the drying process.
Consumption	Depending on the evenness and the porosity of the surface approximately, 0,090 lt/m ²
Application Tools	Brush, roller paint, airless spraying equipment.

Performance Data

Service Temperature	(-30°C) - (+80°C)
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5345 Macunart

Cement Based, Water Resistant, Fine, Surface Smoothing Putty



Description

Cement based, fine, white, surface smoothing putty formulated for smoothing the uneven concrete and mineral surfaces, filling up the hair cracks and for covering interior and exterior surface defects.

Fields of Application

For smoothing the uneven concrete and mineral surfaces, for filling up the hair cracks and for covering the surface defects due to removal of blistered old coating.

Properties

- Forms very strong, non-dusting and smooth surfaces, thus contributes to the appearance and the resistance of the top coat.
- Resistant to water and to moisture; when dampened, does not soften or does not weaken the adherence of the top coat to the substrate.
- Compared to gypsum panels and gypsum based materials, has higher durability and adherence strength therefore more resistant against cracking.
- Reduces paint consumption by decreasing the absorbency of the surface.
- Having high filling capacity, at most 2 layers will be sufficient to achieve a smooth surface.
- Easy to apply.
- Easy to sand, non-dusting.
- Does not prevent the water vapour permeability of the wall.

Surface Preparation

- The substrate must be sound, dry, clean and free from all materials that may prevent good adhesion.
- The cracks larger than 3 mm. should be repaired with Kalekim Tamirart.
- The surface should be dampened before the application or should be primed with Kale

Saten Alçı Astarı for a better result.

- 25 kg. of Macunart should be poured in 10 liters of clean water slowly; and mixed well until no lumps remain. Low speed mixer is recommended for mixing process.
- The mixture should be matured for
- 5 - 10 minutes, then mixed again before the application.
- The prepared mortar should be applied to the surface using a stainless steel trowel.
- If putty is to be applied more than one coat 2 - 3 hours should passed between two coats. Total thickness of the putty should not exceed 3 mm.
- Occasional dampening of the surface is recommended within 2 days, starting from 6 - 12 hours after the application of putty.
- Consume the prepared mortar within 4 hours. Dispose of the mortar that exceeds the pot life.
- Do not add any additives, except the ones stated in the product application instructions.
- Ensure that the air and substrate temperature is above 5°C during the application and 24 hours following the application.
- Do not apply in extremely hot weather or during strong wind.
- The surface should be sanded when the mortar gets totally dry.
- The application should be held in between 5 - 35° C.

Technical Properties (at 23°C and % RH)

General Data

Appearance	White
Composition	Cement based

Application Data

Application Temperature Range	(+5°C) - (+35°C)
Consumption	Depending on the evenness and the porosity of the surface approximately 0.5 - 1.0 kg. for 1 mm. application thickness. Application should be held in maximum 3 mm.
Application Tools	Stainless steel trowel.
Mixing Ratio	10 lt. water / 25 kg. powder.
Pot Life	4 hours
Shelf Life	12 months in its original sealed packaging and in dry environment.

Performance Data

Flexural Strength	2.5 N/mm ²
Compressive Strength	11 N/mm ²
Water Absorption (EN 12808-5)	< 5 gr. / 30 min. < 10 gr. / 240 min.
Tensile Adhesion Strength	> 0.3 N/mm ²
Service Temperature	(-30°C) - (+80°C)

Safety Advices

- S2 Keep out of the reach of children.
- S22 Do not inhale its dust.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed seek medical advice.

Storage

- Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

- 25 kg. multi-ply paper bags.



Certificates of Quality: TSEK

5510

İnce Akriik Macun

Water Based, Fine Surface Smoothing Putty



Description

Acrylic copolymer emulsion based surface smoothing putty formulated at an optimum thickness to cover the common surface defects of interiors.

Fields of Application

Surface smoothing putty; for smoothing the concrete and cementitious plastered rough surfaces, for filling up the hair cracks and for covering the surface defects appeared due to removal of blistered old coating.

Properties

- Forms very strong, non-dusting and smooth surfaces.
- Resistant to moisture.
- Does not prevent the water vapour permeability of the wall.
- Decreases paint consumption by decreasing the surface porosity.
- Easy to apply, ready to use.
- High filling capacity, creates a surface, at maximum, in two coats.
- Easily sandable.
- Water based and ecologically compatible.

Application

- The substrate must be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion. The surface should be made sound, clean and dry. Cementitious substrates must be cured. All water insulation precautions should have been taken prior to application.
- To repair the cracks larger than 3 mm. ap-

ply Kale Kalın Akriik Macun first.

- Prime new and porous or very absorbent surfaces with Kale Saten Alçı Astarı.
- After thoroughly mixing, apply
- İnce Akriik Macun in one or two coats by a spatula or an elastic steel trowel depending on the roughness of the surface.
- Sand the surface to remove the spatula marks after 24 hours from the application.
- Before the application of the coating material on putty, prime the surface with Kale Üniastar or Silastar.
- Clean the tools with water.
- Ensure that the air and surface temperatures are above 5°C and the surface is rain free during application and 24 hours following the application.
- Do not apply in extremely hot weather, under glaring sun, during strong wind, fog, high relative humidity and imminent rain or frost.
- Dampen the hot surfaces before the application.

Safety Advices

- S2 Keep out of the reach of children.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed, seek medical advice.

Storage

- Store between 5 - 35° C in its unopened pail.

Packaging

- 5 kg. and 25 kg. pails
- 5 kg. packages packed together in 2s.



Technical Properties		(at 23°C and % RH)
General Data		
Colours	Off white	
Composition	Acrylic emulsion based	
Application Data		
Application Temperature Range	(+5°C) - (+35°C)	
Drying Time	Thoroughly dry after 24 hours. Lower temperatures and/or higher relative humidity will lengthen the drying proces.	
Consumption	Depending on the evenness and the porosity of the surface approximately 0.5 - 1.5 kg./ m ²	
Application Tools	Spatula, elastic stainless steel trowel.	
Performance Data		
Service Temperature	(-30°C) - (+80°C)	

5520 Kalın Akrilik Macun

Water Based, Thick Surface Smoothing Putty



Description

Acrylic copolymer emulsion based surface smoothing putty formulated at an optimum thickness to cover the common surface defects of exteriors.

Fields of Application

Surface smoothing putty; for smoothing the concrete and cementitious plastered rough surfaces, for filling up the hair cracks and for covering the surface defects appeared due to removal of blistered old coating.

Properties

- Forms very strong, non-dusting and smooth surfaces.
- Resistant to moisture.
- Does not prevent the water vapour permeability of the wall.
- Decreases paint consumption by decreasing

the surface porosity

- Easy to apply, ready to use.
- High filling capacity, creates a surface, at maximum, in two coats.
- Easily sandable.
- Water based and ecologically compatible.

Application

- The substrate must be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion. The surface should be made sound, clean and dry. Cementitious substrates must be cured. All water insulation precautions should have been taken prior to application.
- Prime new and porous or very absorbent surfaces with Kale Saten Alçı Astarı.
- After thoroughly mixing, apply Kale İnce Akrilik Macun in one or two coats by a spatula or an elastic steel trowel depending on the roughness of the surface.
- Apply Kale Kalın Akrilik Macun or Macunart after the coating of Kalın Akrilik Macun if more smoothness is required.
- Sand the surface to remove the spatula marks after 24 hours from the application.
- Before the application of the coating material on putty, prime the surface with Kale Üniastar or Silastar.
- Clean the tools with water.
- Ensure that the air and surface temperatures are above 5°C and the surface is rain free during application and 24 hours following the application.
- Do not apply in extremely hot weather, under glaring sun, during strong wind, fog, high

relative humidity and imminent rain or frost.

- Dampen the hot surfaces before the application.

Safety Advices

- S2 Keep out of the reach of children.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed, seek medical advice.

Storage

- Store between 5 - 35° C in its unopened pail.

Packaging

- 5 kg. and 25 kg. pails
- 5 kg. packages packed together in 2s.

Technical Properties

(at 23°C and % RH)

General Data

Colours	Off white
Composition	Acrylic emulsion based

Application Data

Application Temperature Range	(+5°C) - (+35°C)
Drying Time	Thoroughly dry after 24 hours. Lower temperatures and/or higher relative humidity will lengthen the drying process.
Consumption	Depending on the evenness and the porosity of the surface approximately 1.2 - 2.2 kg./ m ²
Application Tools	Spatula, elastic stainless steel trowel.

Performance Data

Service Temperature	(-30°C) - (+80°C)
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5340

Küf Temizleyici

Mildew and Algae Cleaner



Description

A disinfectant used in cleansing of surface from mildew and algae before application of mildew and algae preventing water based paints: Kale Kalia İpek Mat, Kalia Mat, Kalia Tavan, Protekta. Kills the mildew and algae inside the wall and disinfects the wall surface while chloric disinfectants only bleach.

Fields of Application

On any kind of surfaces that mildew and algae growth appears.

Properties

- Unlike chlorine based cleaning agents; does not bleach the paint so does not cause the paint to fade.
- In contrast to chloric disinfectants; disinfects the wall by killing the mildew and algae inside the wall.

Application

- In circumstances where there is very dense growth, wipe the dirt and growth on surface away with a wet cloth. Take care to prevent the mildew and algae from spreading over the surface.
- To kill the mildew and algae that have grown inside the wall, shake Kale Küf Temizleyici thoroughly and spray on the wall until the liquid streams down the surface.
- To prevent the re-growth of mildew and algae on the wall surface after the surface is dry apply Kale Kalia İpek Mat, Kalia Mat, Kalia Tavan, Protekta.
- The lifetime of protection against the mildew and algae re-growth provided by Küf Temizleyici depends on the density of algae and mildew growth and Küf Temizleyici amount consumed.

Safety Advices

- S2 Keep out of the reach of children.
- S24/25 Avoid contact with skin and eyes.
- S46 If swallowed, seek medical advice.

Storage

- Store in a clean and dry place at above 0°C avoiding direct sunlight.

Packaging

- 500 ml. sprayable plastic bottles.
- 500 ml. packages packed together in 6s.



Technical Properties

(at 23°C and % RH)

General Data

Colours	Clear yellow
Composition	Benzalconium chloride

