



Manufacturer of Industrial,  
Protective, Marine Traffic, Automotive  
& Decorative Paints

**AMA**  
**BRS**™  
ISO 9001  
HSE - ISO 14001  
ISO 45001

## Polyurethane Top Coat

## KRS-500



### Description & Recommended Use

Polyurethane topcoat is a two-component coating. It has high resistance to ultraviolet rays, chemical materials and abrasion. This paint as a protective finish coat for protection of structural steel were superior performance, attractive appearance gloss retention. The products can be applied as a single coat or as a topcoat of a coating system. We order to use on metal surfaces chemical tubes, port establishment, deck and hull of ships and bridges.

### Surface Preparation

The surface should be free from any rust, moisture, mill scale, oil & grease.

Mechanical & chemical surface preparation methods should be performed depending on the type of contamination, the coating system environmental condition & the service life.

If paint application without primer for ferrous & Steel use blast in accordance with sa2 or sa2 ½ & remove all the abrasive residues & dust from the surface after sandblasting.

Apply the paint immediately followed by surface preparation

### Data Sheet / Technical Data at 25 ° C

Binder	acrylic polyurethane
Components	Two
Colour	white (according to order)
Finish	gloss
Density (gr/cm <sup>3</sup> ) (A+B)	1.3±0.05
sold Contents (by weight) (A+B)	65%±2
Solid Contents (by volume) (A+B)	55%±3
Dry film thickness(μ)	50±60 μ
Theoretical coverage at 50μ	11 m <sup>2</sup> /lit
Flash point	20 ° C
Storage condition	Store in dry & cool

### Technical Application Details at 25 ° C

Curing mechanism	Chemical reaction & solvent release
Mixing ratio (by weight) (A/B)	5.1
Mixing ratio (by volume) (A/B)	5.1
Pot life	----
Thinner	492
Dry to touch	1 hours
Dry to handle	16 hours
Fully cured	----
Min. time to overcoat	24 hours
Max. time to overcoat	3 weeks
Shelf life (Standard condition)	8 Month

### Description

#### Application Equipment



**Factory:** No727, Aven. Afra, Abas abad industrial state  
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Conventional Spray  
Airless Spray  
Brush  
Pump ratio: 28:1  
Tip: 0.38 mm-0.53 mm  
Nozzle pressure: 150 bar/ 2200 psi

## Code

### Environmental Conditions

Air temperature: 10°C – 40°C  
Surface temperature: 10°C – 40°C  
To prevent moisture condensation  
During application surface temperature must be at 3 °C above the dew point

## Application procedure

Flush equipment with recommended cleaner before use  
Stir component A (base) with a Power Mixer.  
Add hardener to base in the proper Mixing continue stirring for 5-10 Minutes.  
After 20 – 30 minutes add Shakiba's thinner for ready to use  
Use Shakiba's thinner for adjusting the viscosity.  
The consumption depends on temperature & type of equipment & thickness paint.

## Safety

This product is flammable it must be kept away from heat, flash & flame  
keep container closed use with adequate ventilation & Earth  
Prolonged & repeated contact with skin may be harmful  
In case of eye contact flush with plenty of water and check with a medical doctor.

## Note

Density, solid contents theoretical coverage is dependent on colour  
Pot life, drying time is dependent on air and steel temperature, applied film thickness.  
Never apply coatings under environmental condition.  
Adjusting the viscosity & pressure. For better adhesion on un steel, we offer wash primer as on under.  
This information given 25°C temperature  
and changed temperature cause to change data.  
Don't use different thinner; otherwise, we decline all responsibilities of it.  
For more information, please call to sale engineering expert.



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