

# RAYSTON AC TOP 2K



## TECHNICAL DATA SHEET

### DESCRIPTION

Two-component flexible, high-solids, fast drying aliphatic polyurethane coating with increased resistance to corrosive environments and weathering, contains anti-corrosion pigments.

### FEATURE

#### Provide:

- High strength of the coating.
- High impact resistance and elasticity.
- Fast drying.
- High resistance to sunlight and UV radiation.
- Well preserves shine.

### RECOMMENDED TO USE

#### Steel surface:

- As a single-layer coating in conditions of low and medium atmospheric corrosion categories C2-C3 (ISO-12944-2 / 2018).
- As a top layer (when coating on various types of primers) under the corrosivity categories C2-C4, C5 and CX (ISO-12944-2 / 2018).
- Maintenance coating over old painted surfaces.

#### Non-ferrous and galvanized surfaces:

- As an atmospheric protective coating.

#### Concrete surface:

- In the industry.
- At civil engineering objects.

### COMPATIBLE COATINGS

Depending on the operating conditions the material can be used with different types of coatings:

- Single pack, moisture cured polyurethane coatings (1pack PUR) of Rayston.
- Two-component epoxy coatings (2pack EP) of Rayston.
- Two-component polyurethane coatings (2pack PUR) of Rayston.

For details please contact the Rayston Technical Sales Support.

### TECHNICAL DATA

Appearance	
Color	RAL
Appearance	Semi-Gloss coating

### Material properties

Volume solids, ISO 3233-3	65% ± 2%
Density A+B, ISO 2811-1	1.25±0.05g/cm <sup>3</sup>
VOC value, ISO 11890-1	333 g/l
Dry heat resistance (ASTM D2485)	120°C
Adhesion to steel, ISO 4624	8MPa

### SURFACE PREPARATION

Surface type	Minimum	Recommended
Surface profile	Ry5 (30–75 µm) (ISO 8503-1)	Ry5 (30–75 µm) (ISO 8503-1)
Primed and previously painted surfaces	P St3; P Ma ISO 8501-2, ISO 12944-4	P Sa2; P Ma ISO 8501-2½, ISO 12944-4
Steel surfaces	Sa 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Surfaces of non-ferrous metals and stainless steel	Clean with alkaline solution, rinse with water. (SSPC-SP 1)	Light surface roughness ISO 8501-2, ISO 12944-4
Galvanized surfaces	Clean with alkaline solution, rinse with water. (SSPC-SP 1)	Light surface roughness ISO 8501-2, ISO 12944-4
Concrete Surfaces	SSPC-SP 13/ NACE No. 6	SSPC-SP 13/ NACE No. 6

### AMBIENT CONDITIONS

Ambient conditions	
Ambient air temperature	from -5 to +45°C
Surface temperature	from -5 to +50°C
Relative humidity, below	85%
Dew point	at least 3°C lower than steel temperature

### THICKNESS & THEORETICAL SPREADING RATE

	Min.	Middle	Max.
Dry Film Thickness	50 µm	60 µm	200 µm
Wet Film Thickness	77 µm	93 µm	308 µm
Spreading Rate	13 m <sup>2</sup> /l	10.83 m <sup>2</sup> /l	3.25 m <sup>2</sup> /l

**Note:** Practical coverage depends on the application conditions, structure to be painted, roughness of the surface and application method.



## KRYPTON CHEMICAL

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### DRYING TIME

Dry Film Thickness 60µ	-5°C	0°C	5°C 85%RH	10°C 80%RH	25°C 50%RH	40°C 50%RH
Dry to touch	3.5 h	3 h	2 h	1 h	45 min	15 min
Dry to handle	6 h	5.5 h	5 h	1.5 h	1 h	35 min
Min. overcoating interval	16 h	14.5 h	14 h	5 h	2.5 h	1.5 h
Full curing	10 d	10 d	8 d	8 d	7 d	5 d

**Note:** Drying times and polymerization depend from the relative humidity, temperature, ventilation conditions and the thickness of the film.

For details please contact the Rayston Technical Sales Support.

### APPLICATION DATA

Mixing ratio: by volume 4 : 1, by mass 5.2 : 1

Product	Volume
Resin	4 parts by volume
Curing Agent	1 part by volume

Stir resin and curing agent separately (slow stirring) and then mix both components thoroughly with propeller stirrer. Before use the temperature of packaging and material should not be less than 3° C higher than the dewpoint.

Add thinner only after both components have been thoroughly mixed and stir the mixture.

#### Thinning:

Adding a thinner is not necessary, but if needed Raystonthinner PU may be added up to 10% by volume.

**Note:** Adding a thinner will increase the drying time. In the case of using thinner other than those recommended, the manufacturer is not responsible for any possible reduction in the quality of the coating!

**Cleaner:** Rasyonthinner PU

**Pot life (+23 °C):** Approx. 1.5 hour after mixing.

### APPLICATION METHODS

**Spray application:** Airless spray is the main method of application. For other spraying methods, viscosity correction may be required.

**Brush:** application by brush. Recommended for touch-up, stripe coating and small areas.

**Roller:** application by roller. Use roller on concrete surfaces.

### PACKAGING

	Volume (litres)	Size of containers (litres)
Comp. A	8	10
Comp. B	2	2.4

### STORAGE & SHELF LIFE

The product must be stored in original sealed containers. The storage conditions are to keep the containers in a dry, well ventilated space away from source of heat and ignition.

Storage temperature:	from 5 to 30°C
Component "A"	24 month
Component "B"	24 month

**Note:** After lasting storage primer shall be stirred thoroughly until its precipitation is spread over the suspension homogeneously. Precipitation in primer does not change its properties or worsen its quality. After the expiration date has passed, it is necessary to check the quality of the paint material.

### SAFETY

Use with adequate ventilation. Do not inhale aerosol. Avoid contact with skin. After contact with skin, wash immediately with detergent, soap and water. In case of contact with eyes, rinse immediately with water and seek medical advice immediately.

For detailed information on the health and safety protection for use of this product see Safety Data Sheet (SDS).

### IMPORTANT NOTE

The above-mentioned information is given according to our laboratory tests and practical application experience.

The manufacturer takes into consideration the fact that the material can be used out of control; the manufacturer cannot give guarantees except of the material quality.

The manufacturer has the right to improve the product and change the above-mentioned data without preliminary notification.

**THE PRESENT TECHNICAL DATA SHEET REPLACES ALL PREVIOUS EDITIONS.**



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