

# Technical Data Sheet



## COOL BARRIER AKRIL PROTECT 300

### Acrylate Paint for Concrete Protection

#### Product description

Styrene-acrylate copolymer based paint for concrete vertical surfaces protection. Forms tough abrasion and chemically resistant film that have excellent adhesion, UV resistance and exterior weathering properties.

#### Typical use:

For concrete and masonry coatings, protection against carbonation and water ingress.

#### Properties:

- Forms tough, durable film
- Excellent adhesion
- Barrier properties against water and carbon dioxide
- Resistance to aggressive atmospheric influences (acidic and salt mists) and changing weather conditions
- High wear resistance
- Good elasticity
- Semi-matt to matt surface
- Superb exterior weathering
- Good elasticity
- High cohesion coefficient
- Resistance to gasoline and water

#### Drying temperature:

At normal air temperature. Work in dry weather at a temperature from 5°C to 35°C.

**Surface drying:** thickness of the dry film 50 – 60 µm: at 45 - 60 min

**Complete drying time:** (BNS EN 29117) (23±2)°C, thickness of the dry film 50 – 60 µm: at 3 hours.

#### PHYSICAL CHARACTERISTICS

**Colour:** Produced in white, light gray and other colours upon request

**Appearance:** Homogenous, easy-flowing mass.

**Flowing time,** funnel 6 mm, (23±0,5)°C (EN ISO 2431): min 90

**Density** (EN ISO 2811-1): 1,45 ±0,05 g/cm<sup>3</sup>

**Maximum content of VOC:** (cat.: A/i) is 500 g/l

**Volume Solids:** approximately 40%

**Weight Solids:** approximately 70%

#### CHARACTERISTICS OF THE COATING

**Rub resistance of the film with sand at thickness of the dry film 60 µm: (BNS 14120-77),** 0,82 kg/µm (at min 0,08 kg/µm

**Resistance to the effect of liquids at (23±2)°C:** Distilled water: min 72 hours

**Working method:** Open the packaging carefully and homogenize well. Work at temperatures over 5°C for air and maximum 35°C for the surface. **In hot summer days** (air temperatures over 25°C, respectively over 35°C of the surface), application must be done in the morning (6-10 h), late in the afternoon (18-22 h) or during the night.

**Typical Film Thickness and Consumption:** 80-100 microns, 1 kg per 3,5 square meters.

**Thinning:** With Abolin Co Special Thinner summer / winter (spring, autumn), depending on the season:

1. On new and relatively new surfaces it is applied mainly by machines for airless spraying, without thinner or with minimum thinning up to 4%. (Greater thinning is not necessary).

2. On old concrete surfaces:

With machines for airless and air spraying, obligatory thinning of the paint up to 6-8%. (This is necessary for better wetting of the old concrete surface with the thinned paint and therefore to improve the cohesion between them).

**Application method:** Spray equipment, brush, roller

**Suitable bases:** concrete surfaces

**Preparation of the base:** Cleaning from mud and dust. Remove oily stains with Abolin Co Special Thinner.

If necessary – priming of the concrete surfaces with AKRIL PROTECT 300 Primer for concrete surfaces.

**Safety measures:** COOL BARRIER AKRIL PROTECT 300 Paint is classified as a harmful and flammable product. When used, the requirements for fire safety and production hygiene must be observed. If necessary – refer to the Safety Data Sheet. **The product is ONLY FOR PROFESSIONAL USE**

**Packaging:** Metal packages with weight 25 kg.

**Storage:** Storage temperature – up to 30°C. Store in original, tightly sealed packages in sheltered and dry storage premises, protected from direct sunlight and heating appliances! Keep out of the reach of children!

**Shelf life:** 6 months from production date in factory-sealed package.

BASE	SYSTEM	COATS	Time for application of next coat
Concrete	1. AKRIL PROTECT 300 Primer 2. AKRIL PROTECT 300 Paint, thinned according to instructions with Thinner summer / winter	1 coat 2 coats	----- After drying of the previous ---
<b>Typical Consumption Rates and Dry Film Thickness</b>			
1. AKRIL PROTECT 300 Primer: 1 kg per 8-10 sqm			
2a. AKRIL PROTECT 300 Paint: 1 kg per 5 sqm, DFT 50 - 60 microns			
2b. AKRIL PROTECT 300 Paint: 1 kg per 3,5 sqm, DFT 80 - 90 microns			
2c. AKRIL PROTECT 300 Paint: 1 kg per 2,3 sqm, DFT 120 - 130 microns 2d. AKRIL PROTECT 300 Paint: 1 kg per 1,4 sqm, DFT 190 - 210 microns			

### Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Abolin's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Abolin representative for approval before commencing the work. Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

### Disclaimer

The information in this document is given to the best of Abolin's knowledge, based on laboratory testing and practical experience. Abolin's products are considered as semi-finished goods and as such, products are often used under conditions beyond Abolin's control. Abolin cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Abolin reserves the right to change the given data without further notice. Users should always consult Abolin for specific guidance on the general suitability of this product for their needs and specific application practices. If there is any inconsistency between different language issues of this document, the English version will prevail.