



## TECHNICAL DATA SHEET

# AKSILBET PAINT FOR CONCRETE

### STANDARDS, CERTIFICATES, APPROVALS, TESTS:

has been granted: THE TECHNICAL APPROVAL OF ROAD AND BRIDGE RESEARCH INSTITUTE

BINDING STANDARD: ZN/2001/AKSIL – 1

COMPLIANCE WITH THE STANDARD: PN-EN 1504-2:2006 and PN-C-81913

NIH assessment Certificate no. HK/B/0857/01/2010 and HK/W/0700/01/2011

### DESCRIPTION OF THE PRODUCT:

**AKSILBET** is an acrylic-silicone, water soluble protective-decorative paint with high resistance to weather conditions, high brushing resistance and excellent adherence to concrete surface. Based on the state of the art raw materials providing the highest quality.

### THE SCOPE OF APPLICATION:

**AKSILBET** paint is designed for painting of:

- concrete fences
- concrete haberdashery, garden statues, balusters, concrete tombstones
- concrete pools including garden polls - NIH certificate
- concrete flooring designed for pedestrians, e.g. in basements, warehouses, sett and concrete pavements
- communication engineering structures: bridges and concrete shields (sound absorbing shields)
- residential, industrial and sacred building façades
- indoor building walls: public, livestock, consumables - NIH certificate
- stone imitation surfaces

### CHARACTERISTICS:

- the surface is waterproof thanks to silicone ingredient
- **AKSILBET** creates **self-cleaning** coats, which provide an effect of fresh and clean surfaces for many years
- the paint coat is washable - resistant to wet brushing
- the coat is resistant to wear, chemicals, mineral oil, gasoline, lubricants, salt solutions
- the coat is resistant to weather conditions: acid rains, alkali, fumes, sun - resistance tested during 10-year period in natural exposure conditions!
- the coat maintains colour for many years
- vapour-permeable coat - enable vapour diffusion and has high resistance to carbon dioxide diffusion.
- **AKSILBET** excellent adherence to surface
- concrete surfaces can be painted right after hardening
- **AKSILBET** was granted a Technical Approval ITB - AT-15-4785/2005 confirming that:

- AKSILBET paint is a efficient protection for concrete against erosion (carbonatization)
- AKSILBET paint composes a barrier against penetration of chlorine ions deriving from surrounding (road salt), which destroy concrete
- Moreover, the paint was granted a positive opinion of the the Technical Approval of Road and Bridge Research Institute  
on approval for use in painting of concrete shields with AKSILBET. **The paint is certified by the approval of the Technical Approval of Road and Bridge Research Institute**
- AKSILBET paint complies with PN-EN 1504-2:2006 standard - products and systems for protection and repair of concrete structures and PN-C-81913:1998 standard - dispersion paints for façades of buildings
- **AKSILBET** is available:
  - in 19 basic colours: white, yellow, light grey anthracite, cherry 130, dark cherry, light red 110, light brown 610, dark brown 686, green GN, khaki green, black 330, light clinker, dark clinker, blue, gold, copper, silver (basic colours sheet)
  - pastel colours (pastel colours sheet)
  - other colours on request (e.g. according to RAL or NCS)
  - basic colours are also available in **gloss** version.
- all the above colours can be mixed interchangeably in order to obtain the required tone or mix with white paint in order to obtain lighter tone.
- some tones which can be obtained by mixing a paint in basic colour with white are included in the PASTEL COLOURS SHEET

### **SPECIFICATION:**

<b>Specification of the product</b>	
viscosity measured with the Ford viscosity cup Ø4 at the temperature of 20 ± 2°C	highest 60 s
density	highest 1.35 g/cm <sup>3</sup>
drying time of the coat at the temperature of 20 ± 2°C and relative humidity 55 ± 5 %: pre drying (for application of the second layer) full drying	after 1 hours after 8 hours
quality coating	II
resistance to wet brushing	10 000 cycles
resistance to wear TABER according to PN-EN ISO 7784-2	
adherence to surface with the "pull-off" method according to PN-EN ISO 4624	≤ 3.0 MPa
resistance to aggressive factors: engine oil, lubricant, coolant, gasoline, Na <sub>2</sub> CO <sub>3</sub> , alkali solution	coat with no changes
kinetic friction index	above 0.25
chlorine ions diffusion index	10 · 10 <sup>-10</sup> m <sup>2</sup> /s
capillary absorption	≥ 0,1
water absorption reduction index	≤ 30 %
CO <sub>2</sub> permeability	≤ 50 m
vapour permeability	≤ 4 m
crack coverage capability up to 0,3 thick layer	does not cover cracks
crack coverage capability above 0,3 thick layer	does cover crack up to 0,15 mm
solid-state substances content	approx. 45%

### **USE:**

### **Surface preparation**

The surface should well cured, firm, without dust and peeling layers, old paints and free from any contamination. We recommend to wash the surface with water, flush and dry. Smooth surfaces to be roughened.

Mould places, covered with moss, algae to be mechanically cleaned and disinfected. Protective impregnant can be applied, e.g. AKSILUX universal use impregnant.

### **Painting:**

Stir and mix the paint before painting. First layer: dilute the paint with water 3:1 (3 parts of paint, 1 part of water), in case of very dense surface 2:1 (2 parts of paint per 1 part of water). Second layer to be applied with non-diluted paint.

The paint to be applied with the use of a paintbrush, paint roll or sprayed (pneumatic or hydrodynamic with a air cover).

Recommended parameters for hydrodynamic spraying (WAGNER gun):

- nozzle diameter 0,013-0,019 inch, e.g. 513 nozzle
- spraying pressure approx. 175-200 bar
- spraying angle 20 – 50

Thick coats up to 400 micron can also be wet applied

Recommended spraying guns: Wagner, WIVA and Kremlin.

### **RENOVATION PAINTING AND PAINTING OF FENCES**

In case of old surfaces and fences one should apply the universal AKSILUX impregnate first followed by two layers of AKSILBET paint.

### **PAINTING OF FLOORING, AVEMENTS, SETT, WATER PONDS AND POOLS:**

Places particularly exposed to wear and moisture should be painted three times bearing in mind that the first layer should be painted with diluted paint as described above.

### **PAINTING OF BRIDGES AND CONCRETE SHIELDS**

AKSILBET is designed for creating rigid protective layers on concrete, reinforced concrete and compressed structures, as well as on brick structures.

The surface should be properly prepared as described above. Concrete: air-dry state without any sign of moisture.

AKSILBET paint should be applied evenly in two layers with a paint brush, paint roller or spray. The second layer should be applied after the first layer is dry - after 1 hours at temperature of 20°C and relative humidity approximately 55 %. Drying time shall be extended at lower temperatures.

Use water for cleaning painting equipment.

All painting works should be performed at ambient temperature not lower than 5°C, however recommended temperature is 20 ± 5°C.

Newly applied coat shall be protected against rain and frost.

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### **EFFICIENCY:**

consumption depends on the type of the surface to be painted, i.e. its structure, porosity and application method.

Surface type	Spreading rate per 1 litre at single layer	Spreading rate/1 m <sup>2</sup> at single layer
Smooth surface, e.g. concrete, smooth plaster, etc.	7-8 m <sup>2</sup>	0,125-0,143 l
Very porous surface as light expanded clay aggregate, sawdust concrete	5-6 m <sup>2</sup>	0,167 -0,2 l

## **WARRANTY PERIOD:**

24 months from the production date. Store at the temperature range: from 5°C to 30°C.  
Protect against frost.

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## **HEALTH AND SAFETY GUIDELINES**

Non flammable.

Water soluble paint, safe in use.

Keep away from children.

Rooms shall be ventilated until characteristic odour disappears.

**WB cat. A a ic ( 30 and 40g/l according to 2004/42/WE ) – LZO = 28g/l**

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## **ENVIROMENT PROTECTION**

### **Residues of liquid product:**

Do not flush in a toilet. Reuse to be considered. If not possible, dispose according to binding regulations (hand over to professional services provider).

Waste code: 080112 - waste paint and varnish

### **Packaging waste:**

Empty packaging to be forwarded for reuse or waste disposal.

Waste code: 150102 - plastic packaging

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## **PACKAGING:**

Plastic packaging capacity: 20 l, 10 l, 5 l, 3 l, 1l or other agreed with the recipient.

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