Industrial Surface Treatments

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MILITARY EQUIPMENT

protective camouflage coating systems

ARMY I

ARMY II



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COLORLAK
Army Systems



Surface Treatment of Military Equipment



ARMY coating systems (I and II) are designed for external surface treatment of equipment, weaponry, and materials of the Army of the Czech Republic (ACR), meeting the requirements of other military forces within the EU and NATO.

The coating systems integrate anti-corrosion protection with a camouflage effect in the visible and near-infrared regions of the electromagnetic spectrum, featuring increased resistance to degradation caused by mechanical and atmospheric influences and special decontamination processes.

The ARMY I system does not contain heavy metals.







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Surface Treatment of Military Equipment

Overview of coating systems (CS) used for surface treatment of various military equipment:

- tanks
- combat vehicles
- trucks/cargo vehicles
- containers
- aircraft and helicopters
- weaponry and materials

For this purpose, ARMY coating systems are approved and qualified by the Military Research Institute Brno according to ČOS 801001 and are listed on **www.vvu.cz**



ARMY I System:

Composition of the protective and camouflage coating system in the IR spectrum range, using the U2500NG paint:

NAME	TRADE NAME	SHADE	TOTAL DRY THICKNESS
EPAX epoxy two-component special anti-corrosion primer	**S2325**	**C0600**	**50-80 µm**
ARMY polyurethane two-component matte special topcoat	**U2500NG**	**see table below**	**60-130 µm**
ARMY polyurethane two-component ultra-matte special varnish	**U1500NG**	**C0000**	**20-40 µm**

SHADES U2500NG		
C1999 Black	C5454 Khaki green	FS 34094 Green
C5140 Light green	FS 26260 Sand yellow	RAL 6031 Bundeswehr
C5330 Dark green	RAL 6003 Olive green	RAL 6014 Olive yellow-green



Additional shades can be custom-manufactured to NATO or other standards, with or without masking properties in the near-infrared region of the electromagnetic spectrum, as specified by the customer.

ARMY - Protective Camouflage Coating Systems

ARMY coating systems are designed for the external surface finishing of equipment, weapons, and materials of the Czech Armed Forces.

Coating systems utilizing U2500NG paint and U2056 paint integrate anti-corrosion protection with a camouflage effect in the visible and near-infrared spectrum of electromagnetic radiation, featuring enhanced resistance to degradation from mechanical and atmospheric influences as well as the effects of specialized cleaning processes.



ARMY II System:

Composition of the protective and camouflage coating system in the IR spectrum range, using the U2056 paint:

NAME	TRADE NAME	SHADE	TOTAL DRY THICKNESS
SYNOREX reactive two-component paint	**S2008**	**C0600**	**10-14 µm**
EPAX epoxy two-component special anti-corrosion primer	**S2320**	**C0600**	**30-60 µm**
AXAPUR polyurethane two-component matte topcoat	**U2056**	**see table below**	**90-120 µm**

SHADES U2500NG		
C1999 Black	C5454 Khaki green	FS 34094 Green
C5140 Light green	FS 26260 Sand yellow	RAL 6031 Bundeswehr
C5330 Dark green	RAL 6003 Olive green	RAL 6014 Olive yellow-green

Additional shades can be custom-manufactured to NATO or other standards, with or without masking properties in the near-infrared region of the electromagnetic spectrum, as specified by the customer.

Anti-slip Surface Treatment of Military Equipment



Beyond qualified coating systems, they are designed for surface treatment and renovation of military equipment.

Paint U2068 provides corrosion and mechanical resistance, resistance to selected chemicals, and a camouflage effect in the visible part of the electromagnetic spectrum.

The paint has not been qualified according to ČOS 801001 and thus does not provide full integral protection.

Anti-slip surfaces:

- S2338, V2300 - shade R6003 (as an intermediate layer within ARMY I and ARMY II application)
- upon customer request

Technical specifications and safety data sheets for individual coating materials, including technological application procedures, are available upon request. ec



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