





AMDOR

RUSSIA'S LARGEST
MANUFACTURER OF PRODUCTS
FOR ROAD CONSTRUCTION

6 logistic
centers in the
Russian
Federation

25 years of
successful work
in the market

more than
500
companies
use our
products



10 countries of
the world

geography of supply of Amdor adhesion
agents and emulsifiers



AMDOR

Top
seller

ADHESION AGENT

AMDOR-9 AMDOR-10



PRODUCT DESCRIPTION

AMDOR-9 and AMDOR-10 adhesion road agents are cationic surfactants that provide a high degree of adhesion of road bitumen with mineral materials of various natures, including crushed granite and sand, which have increased acidic properties.

AMDOR-10 agent is an improved chemical alternative of AMDOR-9 agent, the difference is improved organoleptic and operational properties of the former adhesion agent.



PRODUCT ADVANTAGES

Adding AMDOR-9 and AMDOR-10 adhesion agents into bitumen allows to:

- increase the adhesion of liquid and viscous bitumen with mineral materials of various natures
- reduce energy consumption for process needs
- increase the service life of the road surface by enhancing the moisture resistance and frost resistance of asphalt concrete
- improve the performance of asphalt-concrete plants and road compactors



DESIGNATION

AMDOR-9 and AMDOR-10 adhesion road agents are used in road construction to extend the service life and improve the quality of road surfaces, to improve technical indicators in the production of bitumen-concrete mixes.



EASY TO USE

AMDOR-9 and AMDOR-10 agents are added into the bitumen at an asphalt concrete plant (right before preparing bitumen-concrete mix) or in a storage tank with bitumen.

Adhesives agents can be added into bitumen using the existing equipment of an asphalt concrete plant, polymer-bitumen binder makers, as well as special installations for adding adhesive agents.

Effective dosage: 0.2-0.5% by weight of bitumen.*

* The exact amount of the agent is determined by the nature of the mineral material and the quality of the bitumen.

IMPORTANT! ensure uniform distribution of the agent in bitumen.



TRANSPORTATION AND STORAGE

AMDOR-9 and AMDOR-10 agents are supplied in 216-liter metal barrels and 1,000-liter polymer containers.

It is recommended to store adhesive agents packaged in containers in closed warehouses at an ambient temperature of -40°C to + 50°C.



New

ADHESION AGENT

AMDOR-12



PRODUCT DESCRIPTION

AMDOR-12 agent is obtained by condensation of polyamines and higher fatty acids; it is intended for asphalt concrete layers of roads, airfields and artificial structures. Cost-effective product.



EASY TO USE

AMDOR-12 agent can be added into bitumen both manually and automatically.

Effective dosage: 0.3-0.6% by weight of bitumen.*

* The exact amount of the agent is determined by the nature of the mineral material and the quality of the bitumen.



DESIGNATION

Addition of AMDOR-12 agent significantly increases the adhesion of the organic binder to the surface of the mineral material and increases the durability of road surfaces.



PRODUCT ADVANTAGES

- || favorable market price
- || not much product is required
- || manual or automatic injection into bitumen
- || stability of indicators



TRANSPORTATION AND STORAGE

The product is supplied in 216-liter metal barrels and 1,000-liter polymer containers. It is recommended to store adhesive agents packaged in containers in closed warehouses at an ambient temperature from -35°C to + 50°C.

UCP®

for PPB

THERMALLY STABLE ADHESION AGENT

AMDOR-20T



PRODUCT DESCRIPTION

AMDOR-20T adhesion road agent is a non-amine product based on organic esters, which provides high adhesion of bitumen with both acidic and basic mineral materials. The chemical nature of the agent ensures its high thermal stability in a hot binder, which is expressed in a virtually unreduced adhesive efficiency of the binder at a temperature of 160 °C for 10-14 days.



EASY TO USE

AMDOR-20T agent retains fluidity at -5 °C, is dosed into bitumen at a concentration of 0.3 to 0.5%, depending on the type of crushed stone and the quality of bitumen, providing 90-100% coverage of the crushed stone surface.

* The exact amount of the agent is determined by the nature of the mineral material and the quality of the bitumen.



PRODUCT ADVANTAGES

- || creates a secure bond between bitumen and mineral material
- || the agent is thermostable at high temperatures
- || ensures uniform distribution of the polymer in PPB composition
- || allows to reduce the consumption of the polymer
- || allows to slows down the aging of bitumen



DESIGNATION

The agent provides high adhesion of bitumen and polymer-modified binders with inert materials, both acidic and basic. It is recommended for bitumen modification at bitumen production and storage facilities before shipment to consumers. Improves interaction with polymers in PPB composition.



TRANSPORTATION AND STORAGE

The product is supplied in 227-liter polyethylene barrels and 1,000-liter polyethylene intermediate bulk containers.

It is recommended to store adhesive agents packaged in containers in closed warehouses at an ambient temperature from -35°C to + 50°C.

THERMALLY STABLE ADHESION AGENT

AMDOR-20TM

For PBB and ACM



PRODUCT DESCRIPTION

AMDOR-20TM agent is an effective modifier of binders, which is used in the production of asphalt-concrete mixes and polymer-bitumen binders.

Product appearance: viscous liquid of dark brown color.



PRODUCT CONSUMPTION

Effective dosage of AMDOR-20TM agent: 0.3%-0.4%* by weight of the binder.

* Product quantity is selected based on the results of preliminary laboratory tests for a specific composition of the asphalt-concrete mix or polymer-bitumen binder.



PRODUCT ADVANTAGES

- Provides high adhesion of bituminous binders to mineral materials. More efficient by 20-25% compared to equivalents.
- Highly resistant to temperatures of 160-220°C and does not break down under such conditions for up to 14 days.
- Low-density product (1,000 kg/m³): easy pumping, easy dosing, effective mixing.
- Improves polymer distribution in bitumen in the production of polymer-bitumen binders.
- Slows down the aging of the binder.
- Reduces polymer consumption.



TRANSPORTATION AND STORAGE

Storage warranty period: 2 years.

The product is supplied in plastic barrels and containers. It is recommended to store adhesive agents packaged in containers in closed warehouses at an ambient temperature from -35°C to + 50°C.



AMDOR

AGENT FOR "WARM" ASPHALT-CONCRETE MIXES

AMDOR-TS-1

WITH ADHESIVE PROPERTIES

Extend the season



PRODUCT DESCRIPTION

AMDOR-TS-1 agent for the production of warm mixtures is a highly effective surfactant.

It is used in the production of warm asphalt concrete; allows to reduce the temperature of preparation and laying of asphalt-concrete mixes without loss of quality, and also provides high cohesion, passive and active adhesion, without additional adhesive agents. AMDOR-TS-1 can be easily integrated into technologies for the production of any types of hot mixes (polymer-bitumen binders, stone matrix asphalt, MAC bitumen) using stone materials of various natures. The agent does not change the grade of the binder and slows down its aging.



PRODUCT ADVANTAGES

Addition of AMDOR-TS-1 agent into bitumen allows to

- || reduce the temperature of laying the asphalt mix by 30+50 °C
- || increase the adhesion of bitumen with mineral materials to the indicator of sample 1 + 2 according to GOST 11508 without additional adhesive agents
- || carry out road construction works by 1.5+2 months out of the usual season
- || increase the hauling distance of asphalt-concrete mixes
- || work at low temperatures
- || reduce energy and labor costs when laying and compacting asphalt-concrete mixes
- || increase the durability of road surfaces



DESIGNATION

AMDOR-TS-1 agent is designed to reduce the process temperatures during production, transportation, and compaction of various types and grades of asphalt mixes used in the construction and repair of asphalt concrete layers on roads, airfields, and artificial structures.



EASY TO USE

The use of the agent does not require a change in the production modes or re-equipment of asphalt concrete mixing plants.

Effective dosage: 0.3-0.5% by weight of bitumen or polymer-bitumen binders*

*The exact amount of the agent is determined by the nature of the mineral material and the quality of the bitumen.



TRANSPORTATION AND STORAGE

The product is supplied in 216-liter metal barrels and 1,000-liter polymer containers. It is recommended to store adhesive agents packaged in containers in closed warehouses at an ambient temperature from -35°C to + 50°C.



UCP®

restore a bitumen
property

RESTORATIVE AGENTS FOR ASPHALT-CONCRETE MIXES WITH RAP CONTENT UP TO 100%

AMDOR-VD



PRODUCT DESCRIPTION

AMDOR-VD line agents are designed to restore the properties of aged bitumen in recycled asphalt concrete (RAP); the product is used to prepare asphalt-concrete mixes with a RAP content of up to 100%. Addition of the agent allows final asphalt-concrete mix to show indicators that meet the regulatory requirements.

AMDOR-VD agents are made mainly from renewable plant materials.



THE USE OF AMDOR-VD PROMOTES

- || Involvement of a substantial amount of secondary raw materials for reuse.
- || Reduction in the cost of asphalt-concrete mix by 15-25%.
- || Solving the problem of recycling old asphalt concrete.
- || Reducing the consumption of natural resources



ADDITION AND CONSUMPTION

All restorative agents of the proposed line are suitable for addition both by spraying through the nozzle on the RAP and by direct injection into the bitumen pipeline before feeding into the mixer.

AMDOR-VD dosage: 4-6% of the RAP binder weight or 0.3-1.2 kg per 1 ton of asphalt-concrete mix.*

*the exact dosage is determined after the extraction of the binder, determination of its quantity in the RAP and its properties.



PRODUCT ADVANTAGES

- || Excellent compatibility with bitumen binder.
- || The low viscosity ensures good distribution of the agents over the surface of the RAP, as well as their rapid diffusion into the RAP binder.
- || Stable properties at high temperatures.
- || In addition to restoring properties, AMDOR-VD agents of A and B grades have an adhesive effect. Addition of a calculated amount of the agent provides optimal adhesion, taking into account the use of RAP and new materials.
- || AMDOR-VD restorative agents do not produce any evaporations of carcinogenic substances unlike agents based on oil refining products



TRANSPORTATION AND STORAGE

Storage warranty period: 2 years.

The product is supplied in marked containers: polyethylene ibc containers and metal barrels.

BITUMEN PLASTICIZING AGENT FOR THE PRODUCTION OF POLYMER-BITUMEN BINDERS (PBB)

AMDOR-PL

For PBB



PRODUCT DESCRIPTION

- || AMDOR-PL agent (grades A and B) is used as a plasticizer in the production of polymer-bitumen binders according to GOST R 52056 in road construction.
- || The product is a composition based on heavy oil fractions, residual oil products and anionic surfactants.
- || Product appearance: homogeneous mobile liquid of dark brown color.
- || AMDOR-PL plasticizing agent is designed to improve the solubility and uniformity of polymer distribution in the production of polymer-bitumen binders



PRODUCT APPLICATION

AMDOR-PL plasticizing agent provides for:

- || Complete and uniform distribution of the polymer in the binder;
- || Shortening of the production cycle due to faster dissolution of the polymer;
- || Improving the quality characteristics of asphalt-concrete mixes.



PRODUCT CONSUMPTION

Effective dosage of AMDOR-PL plasticizing agent: 3-7% * of the binder weight

* The quantity of the product is selected based on the results of preliminary laboratory tests for a specific polymer-bitumen binder.



TRANSPORTATION AND STORAGE

Warranty storage period: 2 years.

The product is supplied in marked containers: 216.5-liter metal barrels and/or 1,000-liter polymer containers



UCP®

For MP

MINERAL POWDER ACTIVATOR

AMDOR-AMP



PRODUCT DESCRIPTION

AMDOR-AMP mineral powder activator is a mix of surfactants intended for use in road construction for hydrophobization of mineral powder.

Appearance: mobile viscous liquid of dark brown color.



PRODUCT APPLICATION

AMDOR-AMP activator is intended as a means of hydrophobicity in mineral powders to enhance the water-repellent properties of asphalt-concrete mixes and the bond performance of asphalt concrete in the construction and road-building industries.



ADVANTAGES OF AMDOR-AMP:

- Low effective dosage.
- The product is homogeneous, liquid and mobile during the warranty period.
- Ready-made activated mineral powder is better for longer storage, does not cake.
- Technologically convenient and easy to use.
- The quality indicators of asphalt-concrete mixes and asphalt concrete are significantly increased (water resistance, frost resistance, longer service life).



TECHNICAL SPECIFICATIONS

	Grade A	Grade B
Appearance, color	Viscous liquid from brown to dark brown color	
Density at a temperature of 20C, g/cm3	0,920-0,990	
Acid number, mg KOH/g, min	30	60
Hydrophobicity of mineral powder, h, min	24	

Effective dosage of AMDOR-AMP: 0.3-0.5% by weight of mineral material



TRANSPORTATION AND STORAGE

Warranty storage period: 2 years from the date of manufacture.

Supplied marked containers: polyethylene ibc containers (950 kg), metal barrels (190 kg), polyethylene intermediate bulk containers (200 kg).

UCP®

Adhesive agents, emulsifiers of bitumen emulsions, latex, functional additives.

Functional additives (new)

Amdor-PL	Plasticizing agent for PBB	3-7%
Amdor-AMP	Mineral powder activator	0,3-0,5%

Adhesion agents

Indicator	Indicator value					
	Amdor-9	Amdor-10	Amdor-12	Amdor-20T	Amdor-20TM	Amdor-TS-1
Scope of application	Adhesion agent, for the production of asphalt-concrete mixes.		Cost-effective adhesion agent	Thermostable adhesion agent (PBB).	Thermostable adhesion agent	Temperature-lowering adhesion agent
Dosage, % by weight of bitumen	0,3-0,5	0,2-0,3	0,3-0,6	0,3-0,5	0,3-0,4	0,3-0,5
Appearance, color	Viscous liquid from light brown to dark brown color			Viscous liquid from light yellow to brown color	Viscous liquid of dark brown color	Viscous liquid from light yellow to dark brown color
Density, at 20°C g/cm3	0,930-0,990	0,930-0,990	0,950-0,990	1,2-1,3	0,910-1,100	0,960-0,980

Restoring agent

Product	Scope of application	Recommended dosage, %
Amdor-VD	Restoring agent for asphalt concrete mixes with RAP content up to 100%	4-6%

Emulsifiers of cationic bitumen emulsions

Product	Scope of application	Recommended emulsifier dosage, %, by weight of the emulsion*	Type of emulsion
Amdor-EM	Priming, patching, rough surface treatment, Chip Seal	0,25-0,5%	CBE-Q, M
Amdor-EM-1		0,2-0,3%	CBE-Q, M
Amdor-EM-3	Slurry-Seal, Microsurfacing	0,8-1,6%	CBPE-S
Amdor-EM-S-3	Slurry-Seal, Microsurfacing (co-emulsifier)	0,2-0,3%	CBPE-S
Amdor-EM-3 A	Recycling, organic-mineral mixes	0,6-1,0%	CBE-S
Amdor-EM-3T	Slurry-Seal, Microsurfacing, recycling, organic-mineral mixes	0,6-1,2%	CBPE-S
Amdor-EM-31	Recycling, organic-mineral mixes	1,0-1,5%	CBE-S
Amdor - EM-31T	Recycling, organic-mineral mixes	0,6-1,0%	CBE-S

Cationic latex

AMDOR-LK-64	Cationic polymer for bitumen modification in the production of CBPE[cationic bitumen-polymer emulsion]	2,0-5,0%	CBPE-Q, M, S
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* The exact amount of the agent is determined by the nature of the mineral material and the quality of the bitumen. Specialists of our company provide engineering and technical support for the use of AMDOR products. The information is based on the experience of using the products and tests. The products are certified.

Products are always in stock in warehouses in Moscow, St. Petersburg, Novosibirsk, Togliatti, Rostov-on-Don, Nizhny Tagil, Khabarovsk.

UCP®

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