



High-tech additives for the road industry

www.iterchimica.it



The civil engineering application's field in which Interchimica works is summarized in infrastructures such as railways, streets, ports, airports, bridges and tunnels, using **products, methods and innovative technologies.**



Innovative road-construction products
and methods
-additives

anti stripping agents to modify the chemical structure of bitumen

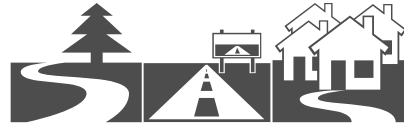
They are complex chemicals that oppose the disgregating action of water and guarantee a perfect adhesion of the bitumen film on the aggregate surface. They increase the wettability of bitumen and the resistance to the mechanical and cyclic strains.

rejuvenators for hot mixes modify the chemical and physical structure of aged bitumen

Modify the chemical and physical structure of aged bitumen and reduce the stiffness of new courses produced with RAP. Improve adhesion between aggregate and bitumen, the wettability and the workability.

special cold binders for the production of mixes for road maintenance 100% RAP

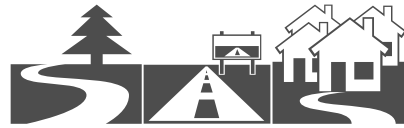
Allow the production of plastic and workable cold asphalt mix, using 100% RAP.



*adhesion bitumen-aggregate
where*

Road pavings in general

All types of asphalt concrete



*rejuvenation bitumen-oxidized
where*

Road pavings in general

Where the specifications require it



*cold production from RAP
asphalt concrete-road
maintenance*

where

Urban-extra urban roads

Road pavings in general


Iterlene

Iterlene PE 31 polyphosphoric

Iterlene IN/400 amino

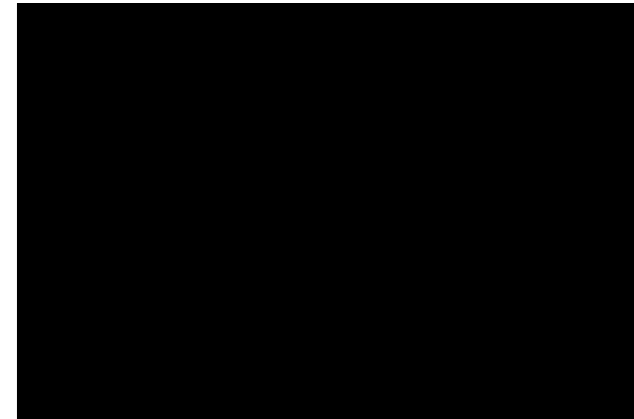
Iterlene SL/100 plus


Iterlene

Iterlene ACF green


Iterlene

Iterlene ACF HP green



additive for warm mixes

Reduce the working temperatures of asphalt concrete during the production and laying phase, contribute to reduce emissions in the atmosphere.

-for high concentrations of RAP

Additives for warm mixes which, besides reducing the production temperature, allow to use high percentages of RAP.

traditional flux oils, modify the physical structure of bitumen

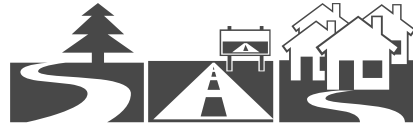
Modify the physical structure of bitumen, lowering the viscosity and giving to the mix a workability lasting in time.

ecological flux oils

Ecological flux oils are plasticizers of vegetable nature for cold asphalt's production.
100% Vegetable formulation.

packed cold mix, ready to be used

Plastic cold asphalt concrete for road maintenance, produced with ecological flux oils.



production of warm asphalt concrete, RAP recovery, reduce CO2 emissions where

Road pavings in general



modify the physical structure of bitumen, lowering the viscosity where

Urban – extra urban roads
Road pavings in general



modify the physical structure of bitumen, lowering the viscosity where

Urban – extra urban roads
Road pavings in general



road maintenance plugging holes on road surface where

Urban – extra urban roads
Road pavings in general



Iterlow

Iterlow - T
warm mixes
Iterlow-RS
warm mixes asphalt with high concentrations of RAP



Iteroil

Iterlene IN/200 Special
Iteroil | Stabiloil



Iteroil

Iteroil VG



Itercold

Itercold



surface active anionic, cationic and non-ionic emulsifiers

Surface-active emulsifiers for production of standard and special bitumen emulsions. Used for tack coat, cold recycling, slurry-seal, single-double layer, bituminous pastes.

bituminous emulsions traditional | special | transparent

Traditional and special emulsions for the realization of tack coat, impregnating emulsions, cold recycling, slurry-seal, single-double layer, cold mixes.

synthetic latex

Modify the physical characteristics of bitumen, improving the performance properties.



production of traditional and special bitumen emulsions where

Road pavings in general



tack coat | cold recycling | slurry-seal | single-double layer, cold mixes where

Road pavings in general



production of elastomeric and modified emulsions.



Cationic emulsifiers

-quick setting
Iteracid ID/10-K
Iteracid L12
-quick/medium setting
Iterstab SS 1180
medium setting
Iterstab SF 1058
-slow setting
Iterstab SF 1050

Non-ionic emulsifiers

-medium setting
Iteral AL/98-N
Iterbas 40/50
-slow setting
Iterspecial PB/L
Iterspecial CB

Bitumen emulgators

Iterpitch B +



-quick setting
Item acida
-slow setting
Item recycling
-medium setting
Item slurry
Transparent emulsion
Itergrip-s trasparente



Iterlatex AF
Iterlatex E1120
Iterlatex 1140|S



cellulose fibers natural – mineral -synthetic reinforce and thicken the bitumen

The fibers are used as thickeners in improved paving, where a high percentage of bitumen is required. The fibers are supplied with suitable dosing plants.

copolymers for mixes modification

Modify the physical structure of the mix, improving its performance properties. Used for the modification of mix in the realization of open, semi-open and closed asphalt mixes, with high performance properties. The copolymers are supplied with suitable dosing plants.

multifunctional compound for the modification of mixes

Customizable compound of structural modifiers (e.g. polymers and fibers). Modify the physical structure of the mix, improving its performance properties. Used for the modification of the mix in open, semi-open and closed asphalt mixes, with high performance properties. The compound are supplied with suitable dosing plants.



modify and improve the physical structure of the mix | improved hot bitumen mixes | semi-open | SMA | high modulus
where

Urban, extra urban roads
Roads with heavy traffic | carrying capacity
Highways with heavy traffic | carrying capacity
heavy traffic | static loads



modify and improve the physical structure of the mix | improved hot bitumen mixes | semi-open | SMA | high modulus
where

Urban, extra urban roads
Roads with heavy traffic carrying capacity
Highways with heavy traffic | carrying capacity
heavy traffic | static loads



modify and improve the physical structure of the mix | improved hot bitumen mixes | semi-open | SMA | high modulus
where

Urban, extra urban roads
Roads with heavy traffic | carrying capacity
Highways with heavy traffic | carrying capacity
heavy traffic | static loads



Iterfibra

Iterfibra



superplast

Superplast



Iterpps

Iter-pps



polymers for bitumen modify the physical structure of bitumen

Improve the characteristics (Ring and Ball, penetration, Fraass). Used for the realization of open, semi-open or closed mixes with high performance properties.

chemical modifiers for bitumen

Allow to reach performances comparable to those obtained with normal elastomers through a chemical and not physical interaction, affecting the parameters of Ring and Ball and penetration, without changing the visco-elastic characteristics of bitumen.

pmb (polymer modified bitumen) stabilizers

Used to stabilize bitumen-polymer mixtures (modified bitumen) increasing the polymerization of SBS. Avoid the separation of polymer from bitumen in the storage tank.



modify and improve the physical structure of the mix | improved hot bitumen mixes | semi-open | SMA | high modulus
where

Urban, extra urban roads
Roads with heavy traffic | carrying capacity
Highways with heavy traffic | carrying capacity
heavy traffic | static loads



modify the chemical structure of bitumen | improved hot bitumen mixes | semi-open | SMA | high modulus
where

Urban, extra urban roads
Roads with heavy traffic | carrying capacity
Highways with heavy traffic | carrying capacity
heavy traffic | static loads



stabilization of modified bitumen
where

Urban, extra urban roads
Roads with heavy traffic | carrying capacity
Highways with heavy traffic | carrying capacity
heavy traffic | static loads


Iterprene

Iterprene SBS
-radial
-linear


Iterfort
Iterfort PH 17


Iterfort
Iterfort PH 17
Iterfort PH 20



colorings | urban design

Surface colorings for road paving, available in all color variations.

clear binders

The synthetic clear binders replace the bitumen allowing the coloring in the mass of the mixes, in all color variations.

oxides for mixes

The oxides are used for the coloring of bituminous mix in the mass.

soil stabilization with organic and inorganic products

Ecological systems and technologies with low environmental impact for white pavements. Improve the stabilization of clayey or arid soils, treated with cement and lime, increasing their mechanical properties.



create pleasant color effects on asphalt concrete pavements | integration with surrounding environment
where
Cycle paths | parking | urban design



production of neutral or colored mixes
where
Cycle paths | urban design



production of colored mixed
where
Cycle paths | parking | urban design



stabilization and consolidation of white pavements
Integration of the landscape
dust fixing
where
White roads



Malta itercolor
Vernice itercolor



Resina LT
Iterlene LT



Iteroxid



Iterstab
Itercol



deodorizing additive

Deodorizing additive for bitumen.

It's a product based on essential oils, whose mixture is able to eliminate the smell of hot bitumen.

It's effective against organic and inorganics smells, it is not toxic and it's biodegradable.

It's certified by US authorities EPA and USDA.

surface treatments

Special protection and roughening treatments, made with epoxy resins.

Bituminous mastics for the treatment of mix's cracking.

detergents for mix encrustations

Products for cleaning:

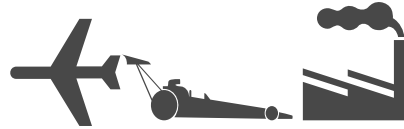
-anti-sticking substances

-detergents



deodorizing additive eliminates smells of hot bitumen where

It's added to the bitumen during the mix's production phase



protect, repair, roughen where

Dangerous pavements | cracked pavements



anti-sticking substances and detergents for bituminous mix encrustations where

Equipment and site building tools for roads | rubbery-metal compaction rollers, vibratory finishing machines, bodies of trucks



Itersorb

Itersorb



Itermastik

Itermastik sealant



Iterant

Iterant antisticking



Iternet

Iternet detergent



additives for production of foamed bitumen

additional additives for bituminous emulsions thixotropic agents with high stability

Used to increase the density of the emulsions.

antikerosene in the mass of asphalt mixes

Production of asphalt concrete resistant to the solvent action of fuels and oils in general in the mass.

action



allow the foaming of bitumen where

Road pavings in general
-in treatments of cold recycling



increases the density of bituminous emulsions where

Road pavings in general
-need to produce thick emulsions



production of pavings resistant to the solvent action of fuels and oils in general where

Airport areas, parking, autobus lanes, parking areas of heavy vehicles

product


Iterfoam
Iterfoam


Itertix
Itertix
liquid additive


Iterpower
Iterpower
powder additive


Iterkerosin
Iterkerosin
powder additive

images



2

Innovative road-construction
products and methods
-technologies

low- noise products and technologies for road surfaces

Innovative technology for the preparation of wearing courses, with the use of rubber dust from PFU wich reduces noise emissions.

protective treatment of bituminous pavements

"Antikerosene" surface treatment for protection of the mixes from the solvent action of fuels and | or oils in general.

antismog additive

Innovative antismog product, which allows the catalysis of the most dangerous polluting agents coming from the emissions of engines (such as NOx), reducing the dangerous effects. Reduces the atmospheric pollution.

action



production of sound absorbing mixes | halves the noise level | stability | resistance to deformation and rutting
 - adherence
 -acoustic lowering
 -material saving
 -noise reduction
 where

Urban and heavy traffic roads | Special roads



surface treatments | mixes protection |
 where

Airports | industrial parking | service area and gas stations



antismog | antioxidant decrease the atmospheric pollution
 where

Urban roads

product


Itersilens
 Itersilens


resink
 Resin K-EC
 antikerosene


Itertio2
 Itertio2

images



asphalt anti-freeze additive

Innovative anti-freeze additive studied to delay the adhesion of ice to the road surface. It lowers the freezing point of water and interferes with the formation of ice crystals. It is dispersed homogeneously within the mix without changing its structural characteristic. Ice can be easily removed by snow clearing equipment. Gives more time to intervene to salt spreaders and snow clearing equipments.

action



Anti-freeze, surface treatments

where

Urban roads | Special roads

product



images



3

Human resources (know-how)
operative abilities (*know-that*)
-the specialized technical structure

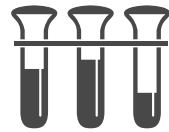
**human resource (know-how)
operative ability (know-that)**

A specialized and operative "team" from planning to realization of works. Thanks to the experience in this field, Iterchimica has obtained prestigious positions in international working teams.



**technical assistance |
analysis laboratory**

A qualified technical structure able to conduct expertise activities, in order to meet the requests of the specifications, through preliminary laboratory studies and assistance for setting up on site.



research and development

Promoting study, research, experimentation of additives for improved, sustainable, safe, modern road pavings. Developing diversified chemical products, less and less dangerous for men and environment, using the most inflexible international standards.

The specialization in the market of modifiers for road pavings allowed to realize products suitable to customers' requirements.



4

More than 90 countries served in 5 continents

An Italian company with a global vocation



- | | | | | | | | | |
|------------|------------------------|--------------------|---------------|------------|-------------|--------------|--------------|--------------------------|
| ALBANIA | BOSNIA AND HERZEGOVINA | DOMINICAN REPUBLIC | JAPAN | KAZAKHSTAN | MALAYSIA | POLAND | SOUTH KOREA | UNITED ARAB EMIRATES |
| ALGERIA | BRAZIL | ECUADOR | JORDAN | KENYA | MALTA | PORTUGAL | SPAIN | UNITED KINGDOM |
| ANGOLA | BULGARIA | EQUATORIAL GUINEA | GREECE | KUWAIT | MEXICO | QATAR | SWITZERLAND | UNITED STATES OF AMERICA |
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