Prodotti e processi innovativi per il settore stradale
Innovative road-construction products and methods

www.greenasphalt.it | www.iterchimica.it
The civil engineering application’s field in which Iterchimica 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

Prodotti e processi innovativi per il settore stradale
Innovative road-construction products and methods

www.greenasphalt.it | www.iterchimica.it
anti stripping agents to modify the chemical structure of bitumen

They are complex chemicals that guarantee a perfect adhesion of the bitumen film on the aggregate surface. Oppose the disgregating action of water, they increase the wettability of bitumen, the resistance to the mechanical and cyclic strains. Increase the durability of bituminous mixtures, guarantee resistance, allow to extend the production-to-lay times, easing the compaction.

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.
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.

product

iterlow

warm mixes

iterlow-RS

warm mixes asphalt with high concentrations of RAP

iteroile

iteroile in/200 special

iteroile | stabiloil

iteroile VG

itercold

itercold | green
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.

Product

Iteremul

- Iteracid id 10: rapid setting
- Iterstab SF1050: slow setting
- Iteral AL98: anionic
- Iterspecial PBL: bituminous pastes
- Iterpitch: emulgators

Item

- Item acida: tack coat
- Item recycling: cold recycling
- Item slurry: slurry seal
- Itergrip-s trasparente: transparent emulsion
- Item acida elastomerizzata: single-double layer
- Item mix 2000: cold mixes

Iterlatex

- 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.
polymers for bitumen modify the physical structure of bitumen

Improve the characteristics (Ring and Ball, penetration, Spring back, 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.
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.
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 inorganic 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

action

deodorizing additive eliminates smells of hot bitumen
where
It's added to the bitumen during the mix's production phase

product

itorsorb

iterant A500C
antisticking
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 reclaiming

PRODUCT

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

images

iterfoam

iterrix V1 liquid additive

iterpower CA powder additive

iterkerosin k-10 powder additive
Innovative road-construction products and methods -technologies
Innovative technology for the preparation of wearing courses, with the use of rubber dust from PFU which reduces noise emissions.

Surface treatments for protection of the mixes from the solvent action of fuels and oils in general.

"Antikerosene" surface treatment for protection of bituminous pavements.

Protective treatment of bituminous pavements.

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.

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

Antimog additive

Antimog (antioxidant) decrease the atmospheric pollution.

Production of sound absorbing mixes halves the noise level. Stability, resistance to deformation and rutting.

Acoustic lowering - noise reduction - material saving - adherence.
Human resources (know-how) 
operative abilities (*know-that*) 
-the specialized technical structure

Prodotti e processi innovativi per il settore stradale
*Innovative road-construction products and methods*

www.greenasphalt.it | www.iterchimica.it
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.