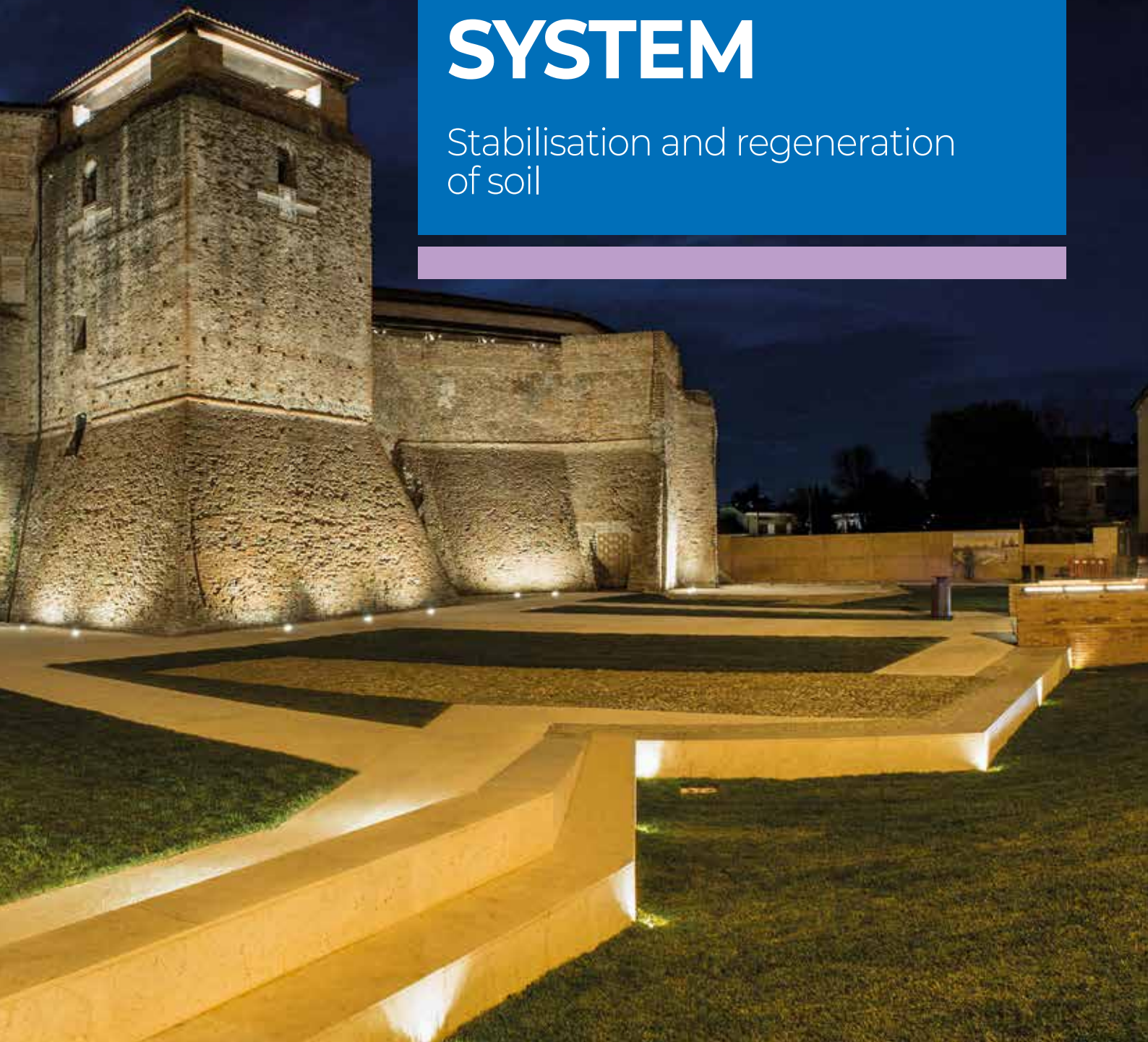


COLDPAV SYSTEM

Stabilisation and regeneration
of soil



**COURT BY THE SEA AND THE GARDEN
OF THE CASTLE OF CASTEL SISMONDO
Rimini - Italy**

Mapei supplied several solutions for this job site, including **Mapei Coldpav 1** and **Mapei Dust Zero Synth** for the area of the external pedestrian pathways in stabilised earth.



COLDPAV SYSTEM

Stabilisation and regeneration of soil



The **Coldpav** system by MAPEI is used to create decorative paving by stabilising soil (either naturally occurring on site or brought in to site) of surface cycle tracks, footpaths and dirt tracks.

The system can also be used to regenerate and stabilise base layers for main and secondary trunk roads by using up to 100% of asphalt chippings or recycled aggregates.

The products that make up the **Coldpav** system do not alter the natural colour of the soil to be stabilised, thereby ensuring the surfacing obtained using the system is in perfect harmony with the surrounding environment.

The **Coldpav** system may be used in either special plant equipment by adding the various components into an industrial mixing unit, or by adding them directly to the soil in the area to be treated using traditional site tools.



ADVANTAGES:

Improved mechanical properties: from load-bearing capacity to resistance to freeze-thaw cycles, to surface wear caused by the passage of vehicles and the flow of run-off water.

Lower dust released into the air and surrounding environment.

Surfaces do not become muddy and no puddles form in rainy weather.

More durable thanks to the excellent stabilisation properties of the mix and lower amount of swelling and/or deformation, even when loaded.

Fewer cracks compared with conventional bitumen emulsion and/or cementitious systems.

Mapei Coldpav 1



Fibre-reinforced, **powdered hydraulic binder** made from hydraulic-reacting components for treating natural soil, virgin aggregates, recycled aggregates and RAP; used to create decorative paving and road foundations subjected to high service loads.

Mapei Coldpav 2



Polymer latex made from modified acrylic resins for treating soil, aggregates and RAP aggregates treated with **Mapei Coldpav 1**. The product's adhesion properties increase the binding capacity of **Mapei Coldpav 1**. by improving cohesion between the aggregates and increasing the plasticity and elasticity of bitumen made from asphalt chippings (RAP).

Mapei Dust Zero Synth



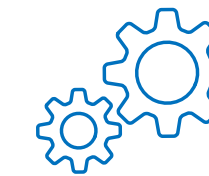
Acrylic latex for holding down dust; specifically developed for consolidating surfaces and to reduce the amount of dust released from dirt tracks and from areas in which minerals are transported.



TYPICAL AREAS OF USE:

Cycle tracks, footpaths, beach paths, jogging tracks, paths in rocky caves, carparks, footpaths in the countryside and in theme parks, roads covered by protection orders, dirt tracks, roads made from secondary raw materials, archaeological sites, roads and tracks in rural settings, campsites, cemeteries, public and private gardens, driveways, etc.

Paving and surfacing may also be designed to create compact, impermeable surfaces, as well as roads and tracks with good permeability.



HOW THE SYSTEM WORKS:

Mapei Coldpav 1 contains Pozzolan-action mineral additives with binding properties which increase the durability of the final layer and the resistance to leaching of stabilised soil. Compared with traditional hydraulic binders, material treated with **Mapei Coldpav 1** remains workable (at temperatures of between +15°C and +20°C) for up to 4 hours. The final layer is also more ductile which makes it more durable and increases its resistance to fatigue. Also, the aspect ratio of the polypropylene microfibers contained in **Mapei Coldpav 1** is more than 600, which makes it easier for them to be dispersed throughout the mix and improve the final mechanical properties of the finished layer.

The adhesive power of **Mapei Dust Zero Synth** is due to the combination of high molecular weight polyelectrolytes derived from natural products, and wetting agents. It also penetrates into the surface of treated material to guarantee better stability of the mix and less surface dust.



RECOMMENDATIONS FOR USE:

The dosage of **Mapei Coldpav 1** depends on the type of material to be treated and on the mechanical performances to be achieved and varies between 2 and 8% by weight on the weight of the soil to be treated. The optimal dosage of the **Mapei Coldpav 1** stabilising agent, as well as the amount of mixing water, must be established by means of appropriate laboratory tests.

EVERYTHING'S OK WITH MAPEI

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