



## **100% ECOLOGICAL CONGLOMERATES MADE WITH COLD MILLED ASPHALT USING POLYGEN NANO**

POLYCYKLE ROAD SRL designed a system for the production of conglomerates made by using 100% milled and completely cold asphalt, without the need to heat the milled product, using the product POLYGEN NANO which allows the creation of an ECOLOGICAL conglomerate WITHOUT GENERATION OF EMISSIONS OR COLD WASTE, ideal for the maintenance and for the road sections made of 100% milled asphalt.





**POLYGEN NANO** allows the use of waste composed entirely of milled material, to create a cold mixture suitable for closing holes and paving road sections.

### HOW TO USE

**POLYGEN NANO** is dosed directly on the milled asphalt (with a maximum recommended particle size between 8 - 12 mm) and mixed until a homogeneous dispersion of the additive is obtained. The conglomerate thus produced can be used immediately, packaged or stored in the warehouse.

For the construction of a road section that requires maintenance, it is possible to mill and regenerate the road directly by using simple milling cutters mounted on Bobcat so as to obtain a milling fine enough to be used on the site to which it can be possibly be added another milled asphalt.



ROAD MILLING



Then, **POLYGEN NANO** is added to the milled asphalt from 1.5% to 2% of the total weight, simply by spraying on the surface of the ground product.

If you want to increase the amount of bitumen on the road, it is possible to add solid bitumen (for example, Selenizza type), due to the properties of POLYGEN NANO, solid bitumen is activated even at the existing ambient temperature.

It is advisable to add solid bitumen before milling, adding bitumen to the road surface to be maintained.



POLYGEN NANO ADDED DIRECTLY ON THE MILLED ASPHALT TO BE REGENERATED





After adding POLYGEN NANO, it can be mixed simply by using the milling cutter.



MIXING POLYGEN NANO WITH MILLED ASPHALT

The product milled and mixed in this way can be spread manually or with a finisher



OPERATION - MILLED ASPHALT ADDED WITH POLYGEN NANO

After being laid, the milled asphalt can be compacted with light compactors or "frog" type.

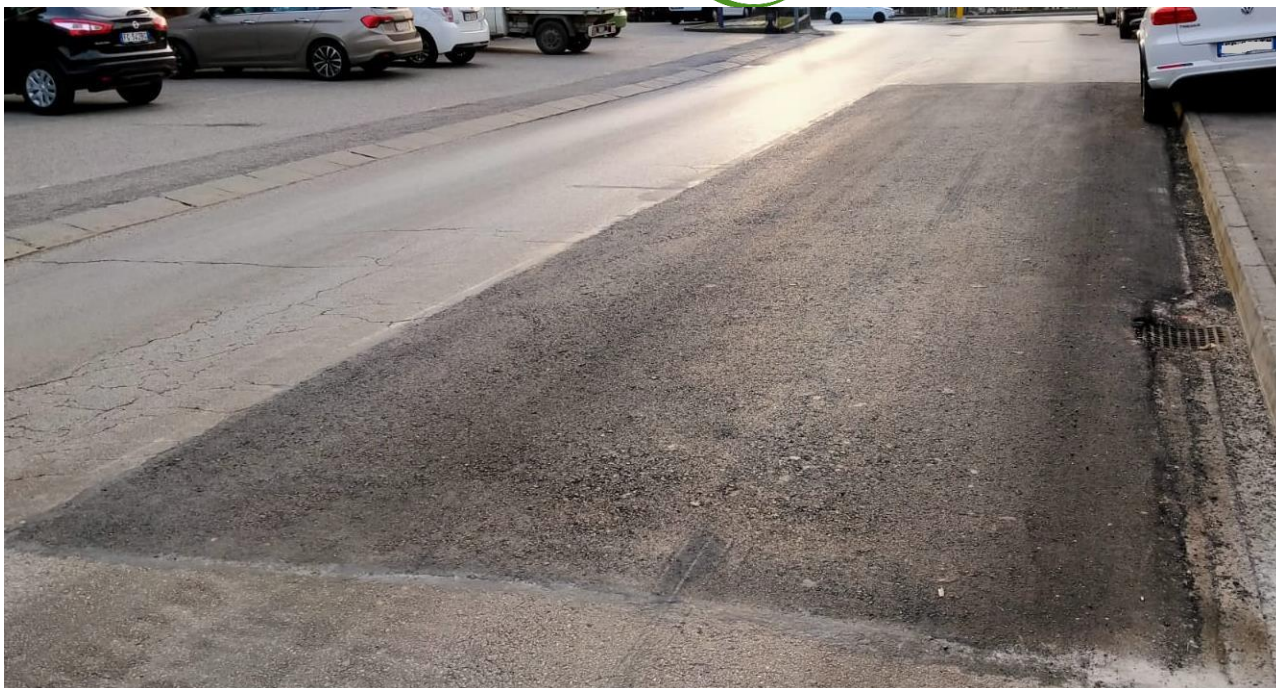


COMPACTION OF THE FINAL ASPHALT LAYER

To increase the sealing of the surface, it is possible to spray the surface with solid bitumen before the compaction phase, so that the POLYGEN NANO additive will allow the solid bitumen to cover evenly and completely seal the entire surface of the road surface.

In the case of very large road sections, the edges of the regenerated area can be sealed with bituminous emulsion.





BIG ROAD SECTION REHABILITATED USING POLYGEN NANO

The road surface thus rehabilitated is immediately trafficable and put into use by traffic.



SECTION REHABILITATED WITH POLYGEN NANO - IMMEDIATELY IN TRAFFIC





ROAD SECTION NEAR AN INTERSECTION BEFORE AND AFTER REHABILITATION WITH POLYGEN NANO



OTHER EXAMPLES OF REHABILITATION CARRIED OUT ON SITE WITH POLYGEN NANO