

Impact crusher processes Turkish perlite for the juice industry

Harborlite Aegean in Turkey, a subsidiary of Imerys, now processes different types of perlite for the juice industry with an impact crusher of type PB 0806 from BHS-Sonhofen – the first time for the machine to be used for this purpose.

Performance minerals are key to many different industries, from plastics and paint production to batteries and filtration purposes. Imerys, a world leader for mineral-based specialties for industrial use, is an expert in producing a wide variety of performance materials. In Turkey, Imerys' subsidiary Harborlite Aegean processes two types of perlite, an amorphous volcanic glass, mined in a nearby quarry. The product is used as a filtration medium by the Italian and Spanish juice industries.

In 2021, one of the crushers in Harborlite Aegean's plant in Dikili

needed replacement. The old Turkish impact mill had reached the end of its service life as it could no longer produce the required grain size of 35 millimeters. Imerys contacted BHS-Sonhofen, which the company knew from a related project.

BHS-Sonhofen had recently delivered a rotor centrifugal crusher of type RSMX to another Imerys plant in Teutschenthal, Germany. There the machine processes aluminum oxide – a highly abrasive mineral. The technology and the service from BHS-Sonhofen convinced Imerys that the German company could be a good fit for replacing the Turkish perlite crusher as well.

After a first assessment of the requirements, BHS and Harborlite Aegean agreed that an impact crusher – type PB 0806 with an output of 50 tons per hour – was

the ideal choice for the task, even though the BHS machine had never been used in this application before. The chance to thoroughly test the machine's capability in the BHS Test Center in Sonhofen gave the team confidence. For this purpose, a truck brought both varieties of the original materials to Germany. One of them was a pre-crushed perlite that was to be reduced from 0-90mm to a target size of 0-35mm; the other one was a pre-crushed fraction with 0-300mm of another type of perlite also with a target size of 0-35mm.

"Running tests with original material is a standard procedure at BHS-Sonhofen," explains project manager Hans Traut from BHS-Sonhofen. "With our tests we make sure the machine is the best choice for the client. They also ensure optimal machine configurations for minimal wear and



Harborlite Aegean replaced the old crusher in their plant with an impact crusher of type PB 0806 from BHS-Sonhofen.

help us to adjust the machine so that the processed minerals match the company's crushing requirements."

The tests required the experts' recommendation. The impact crusher is a particularly economical solution for the fine crushing of perlite with a maintenance-friendly design. The adjustable gap width is a key advantage for Harborlite Aegean as it allows their employees to adapt the machine and avoid wear to produce inaccuracies regarding the desired grain size. This guarantees consistent quality of the product with low-maintenance costs. Also, a throughput rate of 50 tons per hour and the size of the machine were a good fit for the existing plant and Harborlite Aegean's demands. The Turkish company successfully installed the machine in

late December 2021. "The impact crusher from BHS proved to be a perfect fit for our plant and has been running smoothly since production started in January," resumes Hikmet Bozkurt, Plant & Mine Manager at Harborlite Aegean in Izmir, Turkey, <https://www.bhs-sonhofen.com/en>



Harborlite Aegean processes two types of perlite, mined in a nearby quarry.



The impact crusher of type PB 0806 from BHS-Sonhofen processes two different types of perlite for the juice industry.