

No. 142n

Customer: Coalmine

Made by: M.Sc. Eng. Leszek Kupras Chester Molecular Łódź

M.Sc. Eng. Bogdan Marciniak

PROBLEM DESCRIPTION: The overburden (or coal) conveyors have reversible tensioning rollers, covered with rubber. Periodically, the problem of damage to cladding fragments appears, in this case, there were 4 grooves around the circumference, each approximately 50 mm wide and 15 mm deep.

DESCRIPTION OF THE REPAIR: Due to the necessity to extend the conveyor belt, the belt was cut (access to the roller was free). The area of the grooves was cleaned of mud, degreased, and roughened with rotary wire brushes. Degreased again with **Chester Fast Cleaner F-7** and primed with **EL-20M** - cavities were only in the area of rubber. After these preparatory procedures, at 45% relative air humidity, **Elastomer 85T** was systematically applied, successively changing the position of the roller. The elastomer was thoroughly rubbed into the substrate, the loss of rubber was replenished to the actual thickness of the lining. The outer surface of the elastomer was smoothed with a spatula.

ACHIEVED EFFECTS: The repair was performed within 5 hours in the open pit area without the need to disassemble the roller, i.e. without the use of a crane and a platform with a tractor. In a traditional solution, such a "missing" cylinder is disassembled, skinned and re-rubberized, ground and milled.





Producer: Chester Molecular Sp. Zoo. 05-092 Lomianki ul. Krzywa 20 B www.chester.com.pl e-mail: info@chester.com.pl Chester Molecular reserves the copyrights. It is prohibited to reproduce or use in any form or by any means, including graphic, electronic or mechanical reproduction, recording, duplication, any form of storing information in files or archives - any part of this copyrighted print - without the written consent of the publisher