



**Coal Chute Lined with 10 Gauge CRODON Standard**

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**Upcoming Events:**

- ConExpo-Con/Agg**  
Las Vegas, NV  
March 22 –26  
Central Indoor Hall  
Booth 4710
- Coal Prep**  
Lexington, KY  
May 3 - 5  
Booth 1025



**CRODON Transition Piece**

**CRODON® Wear Plate**

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# THE CRODON CHRONICLES

## Helpful Tips for Using CRODON® Wear Plate

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Volume VII

### Asphalt Handling without Hassles



Asphalt is one of the more problematic materials to work with. It can be hot, warm, or cold—with different characteristics for each condition. Most applications include abrasive aggregate and it can be very sticky/difficult to move easily. Feed stocks can be recycled (RAP) which carries all these conditions or it can be made from local virgin materials. In all conditions, however, productivity is critical to profitability & that's where CRODON can make an impact.

CRODON has been used to improve material flow and life cycle, especially in the raw material feed systems. A major OEM installed CRODON in a hopper where the local aggregate material was regularly contaminated with clay. As a result, the hoppers never emptied correctly. After lining the hoppers with CRODON, material flowed without sticking to the sides. In chutes feeding the mixer, CRODON has been combined with an impact resistant plate in the initial impact zone. The result has been both long life and no down time to clean the chute. CRODON has also been used to keep asphalt from building up on burners causing problems with heat flow. With a CRODON "tent" above the burners the asphalt can't find a foothold to stick to.

### Tubular Chutes

In recent years the strategy has been to eliminate air entrainment in the transfer of coal and other bulk materials. This prevents dust generation and, for volatile materials, the potential for fire or explosions. Eliminating air entrainment requires a reduction in the chute cross section and, often, creating round or tubular chute systems. Although this is a very effective method to reduce air entrainment, it can cause significant headaches for materials that are sticky or difficult to flow.



**CRODON Tubular Chute**

Fortunately, CRODON can solve that problem. CRODON can be formed to chutes and other angles as needed. And, because of its low coefficient of friction and hydrophobic surface, material doesn't hang up on it. In a recent application, a major power plant used CRODON to build tubular chutes for their problem flow areas. They were using PRB coal from Wyoming which tends to be very friable, creating serious dusting issues and, when wet, plugging problems. The tubular design address their dust problem and CRODON has kept the coal flowing. After more than two years of service, the CRODON and tubular chutes are operating as designed and are expected to continue performing for many years to come.

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**Potash on Conveyor in an  
Underground Mine**

**CRODON® Wear Plate**

Tough. And Slick.

## Improve Potash Handling

Potash is an essential nutrient for improved crop yields and has become highly valuable commodity as food production has soared. Since potash mines can profitably sell everything they can ship, productivity is the critical factor. Material hang-up is simply not acceptable.

Our first application was for an underground hopper or "flask" at one of the major mines in Canada. They wanted to double the size of the hopper but maintain the same discharge rate. It was a steep order but they estimated that a 10 second increase in discharge rate would cost them at least \$50,000 per month.

They built the "flask" and lined critical areas with CRODON. They quickly found that their discharge rate actually improved compared to the previous, smaller flask. It improved so much, in fact, that they had to engineer additional "make up air". With the increase in potash prices since then, the value of CRODON is greater than ever.

Since then a number of potash mines have trialed CRODON in various problem areas and found similar results. CRODON is now being designed into skip conveyors, hoppers and other applications.