

R&D Evaluation Request / Report

DATE: February 29, 2008	REQUESTED BY: Nao Takahashi
TECHNICIAN: John Beuselinck	REPORT NAME: Applied Coatings / Color Mirage Glass
PRODUCT ID:	
VENDOR:	

OBJECTIVE

Evaluate cutting performance of Alpha® VETRO glass cutting blade on Color Mirage Glass.

METHOD OF EVALUATION

- Color Mirage Glass
- 3.44mm to 3.77mm thick



- Alpha® VETRO Glass Cutting Blade / 10"



- Dewalt Tile Saw, Model D24000, 4200 rpm



RESULTS

- Color Mirage glass tiles were successfully cut using the Alpha® VETRO blade.
- Glass tile was placed on Styrofoam to support the glass tile during the cutting application. I feel this styrofoam helps support the glass tile to minimize the chipping.
- Adjusted cutting depth so the Alpha® VETRO blade would only cut 1/8" into the Styrofoam material.
- We recommend that you place the coating material face up when cutting; tile saws have downward cutting action and cutting with the coating material face up will eliminate chipping or tearing of the coating material.
- Score & Snap method not performed since glass tiles are not flat.

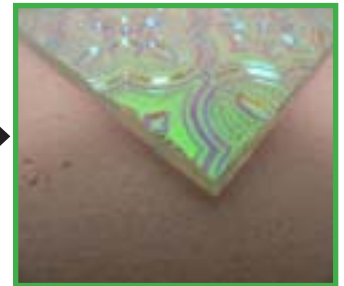
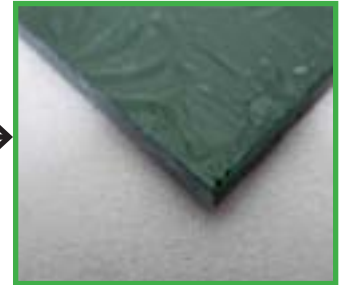
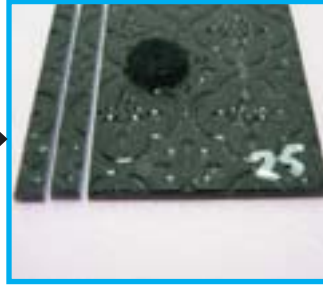
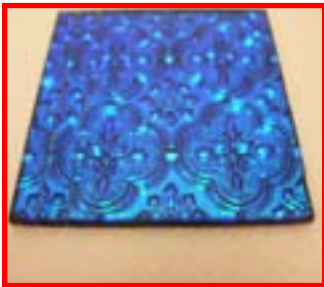
Cutting Results

Glass Color

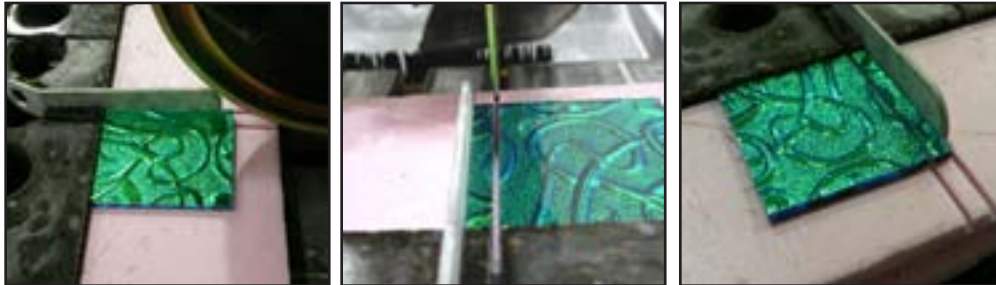
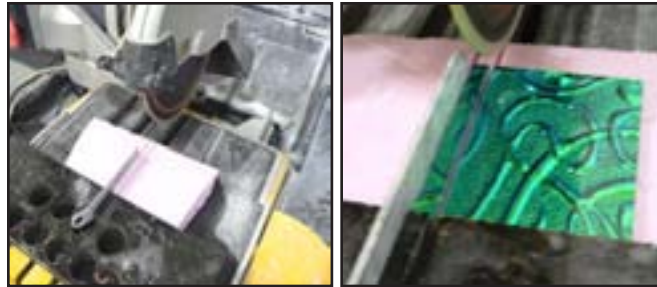
Glass Mold Pattern

Cut edge on back of glass

Cut edge on top of glass tile



Styrofoam used for cushion & support on sliding cutting table.



CONCLUSION

Alpha® VETRO wet cutting blade series will successfully cut the Color Mirage Glass Tiles with minimum chipping on the cut edge. If the glass tiles have a coating material, we recommend that you place the coating material face up when cutting; tile saws have downward cutting action and cutting with the coating material face up will eliminate chipping or tearing of the coating material.

Next Step

- Ship Color Mirage tiles back to Applied Coatings for their review.
- Shipped 3/7/08, UPS Ground Tracking #: 1Z0667970345242629
- Don Ferko (Alpha® Sales Representative) is scheduled to meet with Applied Coatings to review cut samples and submitted report.
- Meeting scheduled for March 11, 2008.

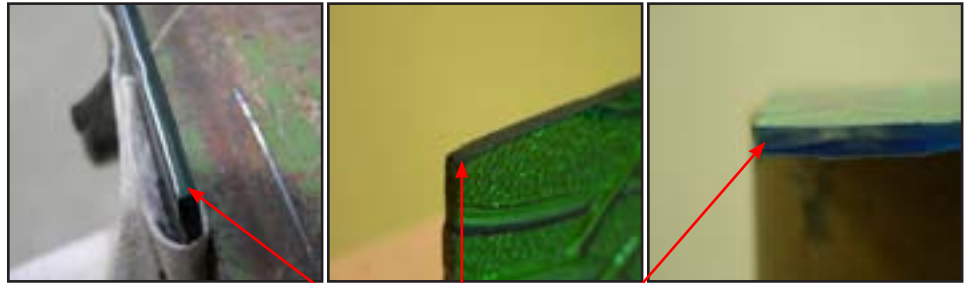


Samples shipped back to Applied Coatings for review.
Three glass tiles & strips cut from different mold patterns.

Alpha® PVA to polish edge of Glass



Cut edge of glass tile after Alpha® Vetro blade.



Edge polished by:
Alpha® PVA
Red & Green



PVA
Green
&
Red

PVA
Green

Alpha®
VETRO
blade



Coated material after glass
tile cut with Alpha® Vetro
blade.



Coated material after glass
polished by: PVA Red &
Green

Edge of glass gently
eased by PVA Green; PVA
did not
remove coated material
from glass.

CONCLUSION

Alpha® PVA Red & Green successfully polished the edge of the glass tile and also eased the edge of the tile on both sides; coated material & non-coated material. To ease the edge, the operator gently touched the edge of glass using the PVA Green wheel. (See photos above)

Tool used: Metabo Variable Speed Grinder / Model: WE 9 - 125 Quick
RPM Setting: #4 setting on dial.