

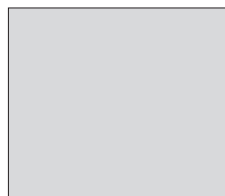


The e³ environmental ceramicsteel™ surface is the first and only ecologically intelligent whiteboard surface to receive Cradle to Cradle certification, and PolyVision's fourth generation of ceramicsteel writing surfaces. e³™ delivers the properties of PolyVision's best selling writing surface, P³ ceramicsteel®, and complies with Cradle to Cradle™ Silver certification criteria, which places a major emphasis on the human and ecological health impacts of a product's ingredients. For over five decades, millions of boards have been produced around the world using PolyVision ceramicsteel. PolyVision used this cross section of consumers to gather the information that helped determine what the next generation of writing surfaces should provide. Our internationally renowned R&D team worked with experts in the field of ceramics and technology to create e³ environmental ceramicsteel surface - the new industry standard for superior quality.

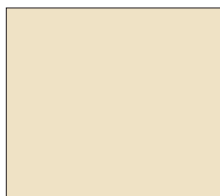
e³ Surface – Ultra Gloss and Low Gloss* Markerboards



WHITE
Ultra Gloss 6100U
Low Gloss 6100L



LIGHT GRAY
Ultra Gloss 6101U
Low Gloss 6101L



BEIGE
Ultra Gloss 6102U
Low Gloss 6102L

* There are characteristic and performance differences between Ultra Gloss and Low Gloss. For further detail, refer to the chart on the backside of this card under Low Gloss Markerboards. For additional questions, specifications, and sample colour chips, please call +32(0)89-32 31 30.

e³ Surface – Ultra Matt Chalkboards



GREEN
Ultra Matt 6500C
Ultra Matt 6500J



BLACK
Ultra Matt 6501C
Ultra Matt 6501J



GRAY
Ultra Matt 6502C
Ultra Matt 6502J



BLUE
Ultra Matt 6503C
Ultra Matt 6503J

Actual colours may vary from the colours shown. Please contact your sales representative for colours samples.

Environmental Features

- Enamel fused to cold-rolled enamelling-grade steel
- In all coatings, the total amount of heavy metals cadmium, mercury, hexavalent chromium, and lead is less than 0,1 %
- All coatings are free of arsenic and antimony
- No Volatile Organic Compounds (VOCs)
- e³ environmental ceramicsteel surface is 99 % recyclable
- Cradle to Cradle Silver Certified

PolyVision Ceramicsteel Advantage

- Ultra-smooth writing surface
- Improved erasability
- Greater colour contrast
- Significantly less surface/light distortion
- Optimum eye comfort
- Enhanced visibility
- Reduced chalk pressure, greater adherence
- Increased chalk/surface contrast



Chemical Resistant



Scratch Resistant



Bacteria Resistant



Fire Resistant



Graffiti Resistant



Stain Resistant

PolyVision®

a steelcase company

e³ Specifications

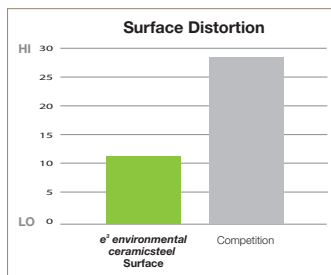
Material Description

e³ *environmental ceramicsteel* is produced by means of an ISO 9001, ISO 14001 and OHSAS 18001 controlled, continuous coil-coating process, consisting of a steel core of 0,32 or 0,35 mm covered on both sides with thin enamel coatings. The ceramic finish is fused to the steel at a temperature of approximately 800 °C.

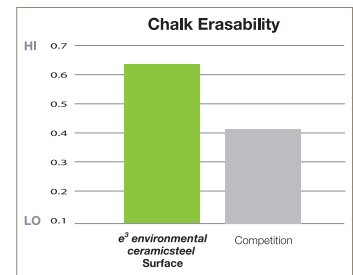
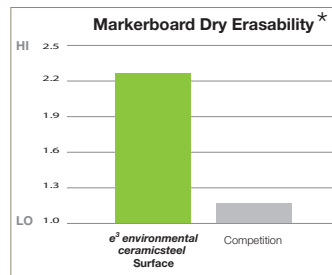
The e³ *environmental ceramicsteel* is used mainly for magnet-retaining whiteboard or chalkboard applications.

| Characteristic | e ³ <i>environmental ceramicsteel</i> Markerboard | e ³ <i>environmental ceramicsteel</i> Chalkboard |
|-----------------------------------|---|---|
| Writeability | Can be written on with any dry-erase, semi-permanent, water-soluble, permanent marker, pen without damaging the surface. | Superior, low-gloss, matt finish readily accepts chalk providing a sharp, unbroken line with less pressure and maximum surface adherence. |
| Visibility | Sharp, clear and distinct marker lines provide maximum colour contrast. | Its distinctive colour in conjunction with the no-glance, matt finish provides maximum chalk to surface (light/dark) contrast for heightened visibility. |
| Surface distortion | The waviness for markerboards will be less than 20 when tested with Byk-Gardner Wave Scan 5+ measurement device (interval Wd 3-10 mm) | The waviness for chalkboards shall be less than 50 when tested with Byk-Gardner Wave Scan 5+ measurement device (interval Wd 3-10 mm). |
| Erasability | Dry-erase marker ink can be wiped off easily with a dry cloth or standard eraser. Semi-permanent, and permanent marker pen inks can be removed with a solvent based cleaner. | Erases easily with a dry cloth or standard chalk eraser, retains minimal residual chalk dust, and will not leave "ghost writing." Colour change (dark/light) after chalk erasing is reduced significantly. |
| Cleanability (Washability) | All residues that remain after normal erasing can be removed by following the care and cleaning instructions on the www.polyvision.com/e3cleaning website. | WET Ghost measurements on chalkboard surfaces before and after wet cleaning shall not exceed a ΔE^*_{94} of 2.0. For further care and cleaning instructions, refer to the www.polyvision.com/e3cleaning website. |
| Wearability | Vitrified glass-hard ceramic surface fused to light-gauge enameling grade steel at approximately 800 °C. High resistance to impact damage, abrasion, scratching, and colour fading. The e ³ <i>environmental ceramicsteel</i> surface registers a minimum of 5 on the Mohs hardness scale. | Vitrified glass-hard ceramic surface fused to light-gauge enameling grade steel at approximately 700 °C. High resistance to impact damage, abrasion, scratching, and colour fading. The e ³ <i>environmental ceramicsteel</i> surface registers a minimum of 5 on the Mohs hardness scale. |
| Magnet Capability | The e ³ <i>environmental ceramicsteel</i> surfaces are ideal for all magnets and magnetic impregnated materials and will not be scratched or damaged from the contact. | The e ³ <i>environmental ceramicsteel</i> surfaces are ideal for all magnets and magnetic impregnated materials and will not be scratched or damaged from the contact. |
| Flame Resistance | The e ³ surface is 100 % non-combustible. | The e ³ surface is 100 % non-combustible. |

| Product and Characteristic | Writeability | Erasability | Cleanability |
|--|---|--|---|
| e³ <i>environmental ceramicsteel</i> Low Gloss Markerboard | Provides the same writing characteristics as Ultra-Gloss. | Low Gloss surfaces will not erase as thoroughly as Ultra Gloss surfaces. When this occurs, a water-dampened cloth will be required to erase the surface. | After normal erasing of Low Gloss surfaces, solvents may be used to remove harder-to-erase dry marker inks and residue from other pens. Always clear water rinse after using any cleaning agent on the surface. For further details contact PolyVision. |



Surface distortion (Orange Peel) has been reduced significantly in direct comparison with the competition's surface.



The ultra-smooth finish enables drymarkers and chalk to glide easily across the e³ *environmental ceramicsteel* surface with minimal friction. The surface smoothness allows more dry-erase ink and chalk to be removed, improving erasability and eliminating "ghost writing."

*All markerboard erasability tests were conducted using Ultra Gloss e³ *environmental ceramicsteel* surfaces.



PolyVision nv
 Zuiderring 56 B-3600 Genk
 Tel. +32 (0)89 32 31 30
 Fax +32 (0)89 32 31 31
www.polyvision.com
info@polyvision.be

Environmental Policy: PolyVision strives for continuous improvement in all areas of environmental stewardship – responsible use of raw materials and natural resources, design processes and operation of all facilities – to protect, replenish, and restore the communities in which we live and serve.

PolyVision[®]
 a steelcase company