



Corian®



ENDLESS EVOLUTION

April, 2015

## DeepColour™ Technology\*

### QUESTIONS & ANSWERS

#### What is DeepColour™ Technology?

It is a patent pending technology developed by DuPont, enabling the introduction of a new, superior standard of solid surfaces in dark colours. Based on proprietary, science-based innovations, this technology offers:

- a darker, deeper, richer colour appearance;
- reduced scratch visibility;
- reduced whitening caused by impact, heat or thermoforming;
- reduced sanding time to achieve the desired finish.

These improvements open up new opportunities to exploit the fabrication flexibility, design versatility and functionality of DuPont™ Corian® for interior spaces.

#### Which are the colours made with DeepColour™ Technology?

Generation 1 – Black: Nocturne matrix: Deep Anthracite, Deep Black Quartz, Deep Night Sky and Deep Nocturne.

Generation 2 – Brown: Coffee Bean matrix: Deep Espresso (deep version of Coffee Bean); Deep Storm (small and medium particles); Deep Caviar (tone-on-tone sierra aesthetic) and Medea matrix: Deep Sable (solid deep version of Medea); Deep Mink (deep version of Medea); Deep Bedrock (medium size particles).

Generation 3 – Grey: Deep Gray matrix: Deep Cloud (deep version of Deep Gray) and Deep Titanium (solid darker grey, similar to Anthracite background, with no metallic flakes).

#### What level of UV resistance is offered by colours made with DeepColour™ Technology?

All DCT colours from Generation 1, 2 and 3 are classified in Group 2 (Delta E between 5 and 15), except Deep Night Sky, that is classified in Group 1 (Delta E lower or equal to 5).

#### Can these colours be used in exterior cladding applications?

DuPont does not include any of the DCT colours in its list of colours for exterior cladding applications. They can be used in exterior environments only if some colour change is accepted.

#### How do colours made with DeepColour™ Technology behave in relation to fire?

Deep Nocturne, Deep Anthracite, Deep Sable, Deep Espresso, Deep Cloud and Deep Titanium in 12mm meet the Euroclass B,s1,d0 requirements.

Deep Black Quartz, Deep Night Sky, Deep Caviar, Deep Storm, Deep Mink and Deep Bedrock in 12mm and Deep Black Quartz and Deep Nocturne in 6mm meet the Euroclass C,s1,d0 requirements.

#### How are colours made with DeepColour™ Technology fabricated?

Colours made with DeepColour™ Technology behave the same when cut or trimmed as the standard colours of DuPont™ Corian®. When thermoformed, they show less whitening. While the standard Nocturne colour shows a clear white area in the corners when thermoformed, this is much reduced with DeepColour™ Technology. Provided the radius is not too tight, there will be no visible whitening; with a very tight radius, some whitening will still appear. The finishing of colours made with DeepColour™ Technology takes less time than standard colours. This is because the new colours are easier to sand, so the final finish can be achieved with significantly less effort. As far as seaming is concerned, the risk of a white line showing up when seaming two sheets together using colours made with the new technology is lower than with standard colours – although of course the fabricator still needs to pay attention when preparing the seam.

Easier seaming is a particular advantage for on-site seaming, or seaming of thermoformed pieces where the seam preparation isn't always perfect due to the complexity of the situation. The only difference is that the dust generated by these colours is black, brown or grey instead of white, as is the case with the standard colours.

For further information on fabrication, please refer to:

- DuPont™ Corian® fabrication manual;
- Technical Bulletin on the fabrication of dark colours.

#### Do the certifications achieved by standard colours of DuPont™ Corian® also apply to the colours made with DeepColour™ Technology?

The standard colour Nocturne, Anthracite, Coffee Bean, Deep Gray and Medea in 12 mm meet the Euroclass C,s1,d0 requirements, whereas most of their Deep versions (Deep Nocturne, Deep Anthracite, Deep Espresso, Deep Cloud, Deep Titanium, Deep Sable) meet the Euroclass B,s1,d0 requirements.

Deep Black Quartz, Deep Night Sky, Deep Caviar, Deep Storm, Deep Mink and Deep Bedrock in 12mm and Deep Black Quartz and Deep Nocturne in 6mm meet the Euroclass C,s1,d0 requirements.



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#### **Are the colours of Corian® made with DeepColour™ Technology more resistant to scratches?**

Their surface resistance is the same as the standard colours of DuPont™ Corian®. The benefit of the new technology is that scratches are darker and therefore less visible compared to standard dark colours.

#### **What adhesives should be used with the twelve colours made with the DeepColour™ Technology ?**

Nocturne JA adhesive should be used for the four black colours (Deep Nocturne, Deep Night Sky, Deep Black Quartz and Deep Anthracite).

For the six brown colours, two new adhesives have been developed: Deep Sable (JY) for Deep Sable, Deep Mink and Deep Bedrock; Deep Espresso (KS) for Deep Espresso, Deep Caviar, and Deep Storm.

For the two grey colours, Anthracite (AN) adhesive should be used for Deep Titanium; Gray Fieldstone (GF) - new adhesive - (or Deep grey (DY) as second option) should be used for Deep Cloud.

#### **In which thicknesses will the colours made with the new technology be available?**

Deep Nocturne and Deep Black Quartz are available in 6mm and 12mm.

Deep Anthracite, Deep Night Sky, Deep Bedrock, Deep Caviar, Deep Espresso, Deep Mink, Deep Sable, Deep Storm, Deep Cloud and Deep Titanium are only available in 12mm.

#### **What are the prices of the twelve colours made with DeepColour™ Technology?**

Deep Night Sky moves from price category 4 to 3 as of July 1st, 2015. Deep Anthracite, Deep Bedrock, Deep Black Quartz, Deep Nocturne and Deep Storm are also in price category 3.

Deep Nocturne, Deep Caviar, Deep Espresso, Deep Mink, Deep Sable, Deep Cloud and Deep Titanium - are in price category 2.

#### **What do you foresee as the most significant applications for the twelve colours made with the new technology?**

We think that these twelve colours will have significant potential across a wide range of interior design applications, for both commercial and residential segments, from worktops to interior wall cladding.

#### **Will kitchen worktops made in these twelve colours be backed by the DuPont 10 Year Warranty?**

Thanks to DeepColour™ Technology, which offers reduced scratch visibility, Deep Bedrock, Deep Black Quartz and Deep Night Sky will be included in the range of kitchen countertop colours (and thus eligible for intensive use).

All DuPont™ Corian® sheets are backed by a 10 year product warranty and 10 year limited installed warranty. Scratches or stains are never covered by warranty since they are classed as customer abuse.

#### **Do the colours made with DeepColour™ Technology offer the same properties as standard colours?**

They offer the same mechanical properties. For fire behavior, see above.

#### **In addition to these twelve colours, does DuPont plan to develop other colours of DuPont™ Corian® using this new technology?**

We are looking into the development of further specific dark veined colours. We will introduce them as soon as they are available.