

# DuPont™ Abcite® Case Study

NOORDBURG KORTRIJK (BELGIUM)  
LONG TERM SURFACE PROTECTION WITH  
ABCITE® X60

Long term surface protection and reduced life service costs for civil engineering



## The Facts

- Kortrijk is a midsize city located in Belgium in the Flanders region; the town is crossed by the river *Leie*; Its banks have been dilapidated, but now have to be come again the local place to be.
- For many years the town started an important project for the expansion of the river, as connection between Antwerp Harbour and the Paris Bassin.
- The project integrated as well the rehabilitation of the banks of the river and the build of 7 new bridges, which allow the raising circulation of 1350 t container ships and vessels. A free height of 7 meters to the ships had to be

guaranteed.

- One of these bridges, the 27 m high Noordbrug, is a cable-stayed bridge, and has been build in 2010 and protected with Abcite® X60 thermoplastic coating.
- Beside the perfect long term weathering resistance requested for such an investment, the chemical resistance (salts for de-icing or exhaust gas) of the coating played an important role as well.
- **Abcite® was the most competitive and effective long term solution compared to the originally planned liquid paint alternative with 4 layers!**
- After a sand blasting as surface preparation, the welded grilles of the bridges have been sprayed with 500 µm Abcite® X60 in NCS 7500 N, a specific colour chosen by the architect. For this kind of civil engineering, the colour integrity along the bridge was also a challenging task for the job coater and initiator of the project, the company Van Os-Duracoat, which had to make a new colour recipe to meet the architect's requirements.
- Abcite® X60 has a long reference list in the Benelux: the product is used for many years in public areas, for the protection of outdoor furniture, banks, lamp posts etc., this, without any maintenance!



**Abcite®** thermoplastic powders from DuPont Polymer Powders have been specifically developed for enhanced surface protection in corrosive environments and other demanding applications. Abcite® offers the following benefits

- High abrasion and impact resistance
- High chemical resistance against most acids and alkalis
- Excellent salt spray resistance
- Long term weathering and UV resistance
- Flexible application methods (spraying or dipping)
- Easy application : good coverage in edges, corners and difficult areas
- Noise reduction
- Repairable in situ
- Efficient and economic : no need for primer, high film thickness 300 – 600 µm
- Environmentally friendly: no solvent, VOC and halogen free
- Based on DuPont Polymer Technology



**Abcite® x60** offers the highest level of performance and reliability for outdoor equipment (fences, public furniture, lamp post...)

- Excellent and lasting corrosion protection
- High impact strength
- Adhesion to all parts without primer
- Excellent chemical resistance
- Smooth, non-porous surface
- Physiologically and toxicologically safe
- Maintenance free

For any further details please contact us:

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