



# Abcite<sup>®</sup> Transportation



# A tough coating for a demanding market

The automotive and transportation market is well known for its highest standards and specifications: safety and long-lasting performance are key. Thanks to its exceptional properties, Abcite® fits particularly well to this very demanding market.

## Simple and robust

- Superior corrosion resistance:
  - C5-M and Im3 High according to ISO 12944-6
  - tested with very good results according to Volvo Indoor Corrosion Test STD 1027, 1375 (VICT)
- High impact and abrasion resistance: Abcite® passes most aggressive stone chip resistance tests (ISO 20567-1 "VDA-Test", Renault D24 1702, Ford BI 157-06, SAE J400)
- UV stability
- Excellent chemical resistance (pH 1 to 12)
- High adhesion and flexibility
- One-coat process: no primer required
- Strong electrical insulator
- Noise dampening properties
- Environmentally friendly (no VOC, halogen free, BPA free)
- Good edge coverage
- Can be overcoated by Alesta® powder coatings for decorative purposes

## Benefits



- Maintenance free over the entire product lifetime
- Resistant over the years even under toughest climate conditions
- Time saving with better performances: can replace a 3-5 layers coating systems
- Color stability over the time
- No cracking on flexible parts

## Typical applications

- Automotive Accessories:
  - Bike racks
  - Pipe fuel tanks
  - Battery casings
  - Door hangs
- Chassis
- Springs
- All other parts exposed to stone impacts



# Product features

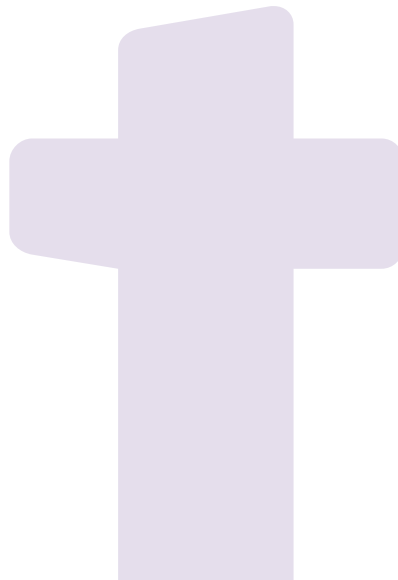
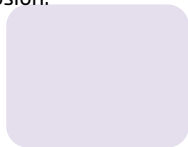
Abcite® 1060 / Abcite® X60		
Film thickness	Min. 300 µm	
External application - weathering resistance	Yes	
Service temperature	From -60°C to 75°C	
Application method - on preheated surface	Spraying Abcite® X60	Fluidized bed Abcite® 1060
		
Overcoating with decorative powder possible	Yes	
Stone chip resistances tests	Renault D24 1702: rating 5 at -30°C; +23°C; +80°C	
	SAE J400: rating 4,5 - 5 at -30°C; +23°C	
Colors	Blue RAL 5012 and RAL 5017 Green RAL 6005 Grey RAL 7001 and RAL 7016 Black RAL 9005 White RAL 9016*	

\*Other colors upon request



## Proven performance: repair damaged nylon with Abcite®

Hundreds of US Marines LAV (Light Armored Vehicles) drive shafts used to be scrapped each year because of corrosion, as a result of the Nylon 11 coating disbonding from the metal, allowing moisture to penetrate under the coating. These damaged drive shafts are now being refurbished using Abcite®, which saves the Marines \$1.5 million each year. The flame-spray remanufacturing process was developed at the Rochester Institute of Technology and full testing showed that the corrosion protection and abrasion resistance in wet sand of Abcite® is equal or superior to the resistance of Nylon 11. Protected by Abcite®, these refurbished drive shafts can go back in service and withstand the extremely demanding operating conditions combining sea water and humidity, temperature variations, severe gravelling and sand abrasion, without being affected by corrosion.



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**Your Abcite® partner**

