

## Crestabond® M1-05 & Crestomer® Advantage 30 Increase Production of Clean Motion Cars

### Company Profile: Clean Motion AB

#### Location : Trollhattan, Sweden

- Clean Motion has developed the **next generation** of Zbee electric vehicles which generate **no noise** or **local pollution**.
- These small energy efficient vehicles are **ultra light** and have powerful electric motors to ensure **fast acceleration** and reach **exceptional efficiency** and driving economy.
- The Zbee's **compact size** makes it agile in traffic and **easy to park** as up to three can fit in a traditional single parking space.
- Weight 230Kg, energy consumption 4KWh/100Km, range 50Km and maximum speed 45Km/h.
- Clean Motion's core values are **Lean, Clean** and **Safe**.

Clean Motion is a new company focused on small vehicles. This project was only started in 2010-2011 to meet the **transportation needs** of the **21<sup>st</sup> century**. Demand is rapidly increasing for this type of vehicle and there are **new projects** planned for **2014**.



### Adhesive Application

#### Crestabond® M1-05 & Crestomer® Advantage 30

From the **beginning** of the project, Crestabond M1-05 and Crestomer Advantage 30 adhesives have been used in production with the subcontractors.

- Application ■ Using **Crestabond M1-05** and **Crestomer Advantage 30** to bond **FRP** (Fibre Reinforced Plastic).
- Assembly **process designed** from the start of the project with Crestabond and Crestomer in mind.
  - Cartridge application with manual and pneumatic guns for **greater production flexibility** and **accuracy**.

- Advantages ■ **Speed of production** maximised through use of Crestabond and Crestomer Advantage 30.
- **Very strong bonded joints** without the use of mechanical fixings.
  - Production flow improved as **minimal surface preparation** needed prior to bonding.
  - Outstanding product performance with **high elongation** and **toughness** leading to **high impact strength** which are important for these types of applications.



### Benefits/Advantages

- ✓ Speed of production capitalised through minimal surface preparation
- ✓ Production time saved through precise adhesive selections best suited to application
- ✓ Excellent product quality and performance
- ✓ High elongation, toughness and impact strength while remaining light weight
- ✓ Technology developed and fully supported by Scott Bader

### Customer Quote

“ By using Crestabond M1-05 and Crestomer Advantage 30 cartridges, we get both **outstanding performance** and **shorter lead times**. These products enable us to **save time** and **speed up production times** as **minimal surface preparation** is needed prior to bonding.

As the production is **rapidly increasing** in the coming years for this type of vehicle, it's **important** we are using a product which **meets all parameters** for quality and efficiency. Budget for 2014 is about 300-350 vehicles with **new projects** in Asia!! ”

**Niclas Johansson**, Co-Owner Kompositmontering AB & Sub-contractor to Clean Motion AB.

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