

Sheet molded compounds (SMC) are fibre reinforced plastics materials which are widely used for exterior trim in the automotive and general vehicle manufacturing industry due to its specific benefits:

- **Reduced weight**
- **Complex design geometries**
- **Corrosion resistance**
- **Sensors and antennas can be mounted**
- **invisibly underneath the SMC**
(no shark antenna on roof)

SMC as exterior trim parts need a perfect surface condition for being coated or painted. This is often done as a manual pre-treatment of the mold with a carrier-coating, which is time consuming and sometimes quality is suffering, alternatively an automated spray coating system is required, which boosts the investment of the production process.

In-mold-coating (IMC) by IMCoatec is a reliable and reproducible automatic process to provide an excellent ready-to-coat surface (class A) on SMC parts at minimum cost of ownership.

IMCoatec is a single component mold injection system* which provides a chemical joint between the SMC and IMC.

IN-MOLD-COATING-SYSTEM FOR PERFECT CLASS A READY-TO-COAT SURFACES OF SHEET MOLDED COMPOUNDS



BENEFITS

- **Automated single step injection eliminates costly and time consuming mold pre-coating**
- **Reliable and reproducible Class A surfaces**
- **Easy operation and handling**
- **Prepared to process top-coat material**
- **Easy integration to SMC lines**
- **One or two controlled injector valves**

Dimensions	Length	Width	Height
Basic machine	2,640 mm	1,400 mm	2,420 mm
Maximum output performance	up to ca. 500 cm ³		
Transmission ratio of metering unit	4:1		
Max. injection pressure**	400 bar		
Theor. pressure with closed valve	800 bar		
Connected loads electrical	3x 400 V + N + PE		
Frequency	50 Hz		
Power rating (total)	15.4 KVA		
Weight	ca. 1,400 kg		

* One-component or pre-mixed two-component materials

**5 steps per injection process adjustable



YOUR GLOBAL PARTNER IN **METERING AND MIXING TECHNOLOGY**

- Processing and application of single and multi component adhesive and sealants
- Ambient or temperature conditioned equipment
- Complete systems for manual or fully automatic processes
- Innovative process control and verification