

TECHNICAL BULLETIN 5.16

Application of Avery Dennison® MPI™ 1105 with contact to petrol

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Introduction

Graphics applications at gas stations or other areas where contact with petrol could potentially happen can be demanding. It is important to take certain aspects into account to ensure high quality appearance for the intended lifespan of an installation.

Product Description

MPI 1105* is printable with various Digital Wide Format Printers available in the market. When overaminated with one of the DOL 1400 Z Series overlamine finishes, it can be applied also in more critical areas such as petrol stations or on tankers, if certain aspects are taken into consideration.

Whereas there is no general, globally acknowledged test method that specifies the suitability of graphics on or near to petrol stations etc., Avery Dennison has tested the aforementioned product combination in a so-called petrol drip test. This test determines the resistance of Graphics products to petrol through means of petrol drips being exposed to the product at a slow and controlled rate. During the time of exposure to petrol, there was no observation of edge curling or discoloration seen on the Graphic and the application guidance is based on this. For more demanding applications it is recommended to perform additional tests to confirm the suitability under the specific conditions.

Note: In case of the occasional petrol spillage it is required to promptly clean off any petrol from the Graphic to ensure the quality of the installation for the warranted life span.

Applications at Gas Stations

Applications near fuel pumps are demanding due to the risk of petrol fumes and the occasional petrol spillage. If applied directly below the fuel pumps, the risk of spillage is the highest. If it happens it is usually not cleaned up immediately, increasing the risk of premature aging or the graphics application to curl and finally lift off at the edges. Applications in these areas are therefore not recommendable.

The risk of gasoline spillage next to fuel pumps or directly above them is lower. Fumes or occasional spillage would not be considered harmful to the application, and therefore not adversely affect the durability of the graphic.



*Note: MPI 1105 EA RS or MPI 1105 Speedmaster are not recommended for such applications due to higher risk for delamination because of air channels and adhesive systems

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Applications on petrol tankers

Also for this type of application there are areas that can be considered more risky than others. Applications close to the fuel opening of tankers are considered a high risk area for spillage and should be avoided. In other areas it is less likely for the Graphic to come into direct contact with petrol. For this type of application MPI 1105 & DOL 1400Z series product in the required finish can be used.



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