



**TOGETHER**  
*for a sustainable future*

## OCCASION

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## 1. INTRODUCTION

The equipment was shipped end of July and arrived in Turkei beginning of August whereby we have to note that the equipment was not send directly to Bursa (2 hours from Istanbul) but to Ankara (10 hours from Bursa). This inconvenience brought higher transport costs to us as well to the final end user Süngersan.

The actual installation of the NovaFlex® CO2 block equipment started end of September 2000 due to the fact in August customs are closed in Turkei and in this month most of people are in Holiday. Most delays could have been avoided by sending the equipment directly to Bursa.

Some changes have been applied to the original installation plan but in full agreement with Hennecke and the client Süngersan.

## 2. INSTALLATION

Süngersan has already placed the CO2 tank before our arrival and the installation has been performed according to plan with exception of the placement of the TDI and Polyol metering pumps. The reason for placing the pumps next to the tanks instead of next to the mixer was that an opening in the outside wall was not possible. Our installation engineer found out that the physical build up of the wall would not permit an opening without substantial supporting structure.

The change of position of the metering pumps of Polyol and TDI had as only negatieve point some extra days installation due to the longer pipe runs.

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3. DRY RUN

Hennecke GmbH

No problems incurred during the dry run testing.

4. START-UP and COMMISSIONING

The commissioning with good foam produced has been completed on the 17 of November. Whereby, only one of the additives indicated by us was not available for the start-up, Süngersan provided the right additive inside a short period.

We have to note that due to the fact Süngersan has not a chemist and therefore we had to provide all the formulations, this will limit them in making more grades than what has been produced. For the future they will seek advice from us and from the raw material suppliers in order to enhance their product palette.

We believe, as also stated by Süngersan, that the conversion to CO<sub>2</sub> has been very well accepted also because the working environment has improved substantially. During their previous production with MC the exhaust gasses reached unbearable levels.

Attachement:

Certificate of Acceptance of the Work, our assembly order no. A 0900-036-901 which corresponds to contract nr. 99/180.