



Certificate No EMS 53655

CRAY VALLEY



Certificate No FM 21566

Mr J. Barry
Renoline Ltd
Scanprobe House
365 Limpsfield Road, Warlingham
Surrey CR6 9HA

8th March 2007

Dear Jon,

Further to your recent enquiry I would like to clarify the following points with regard to the exclusive Renoline drain lining resin Norsodyne E8786.

The material that we supply to you is 100% pure polyester resin, which was formulated by Cray Valley to your specific requirement in 1989. The resin has been formulated for maximum ease of use and performance, rather than low cost, and contains a number of additives. For example, the blue colour is due to the addition of a dye, which makes it much easier for the end user to see and eliminate any air bubbles, which may become trapped in the fleece during the wet out phase. Other additives help to prevent slumping in the pipe and stabilise the cure during long periods of storage.

Furthermore, your resin is manufactured using isophthalic acid, which is expensive but gives the finished product better performance. I know that some of your competitors are offering cheaper resins based on orthophthalic acid or DCPD. These raw materials are certainly less expensive to buy, but will give poorer chemical resistance and lower heat stability.

Much the same applies to the use of filled resins, which we have discussed in the past. They are certainly cheaper to produce as part of the resin has been replaced with chalk filler. However, they are heavy, meaning less resin in every can, they are stiffer and more brittle and they have a tendency to slump down to the bottom of the pipe. Furthermore, filled resins have a tendency to settle into a hard residue on the bottom of the can during storage, especially when the weather is warm. Cray Valley manufactures a range of filled resins and has done so for many years, however for the reasons detailed above we do not consider them suitable for the lining of drains.

The partnership between Cray Valley and Renoline has been extremely successful, based on tried and trusted technology where maximum performance in the field has always been the overriding priority. Between us we have always believed that high quality and ease of use on site, often under difficult conditions, are more important than cost cutting.

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All quotations are subject to final confirmation and sales are made in accordance with our General Conditions of Sale
Cray Valley Ltd. Registered Office: Laporte Road, Stallingborough, Nr Grimsby, North East Lincs DN41 8DR England.
Registered in England No 342856

I think that most contractors will value 18 years of problem free lining behind them especially when you consider the cost and aggravation of a job that has to be repeated.

I hope that this answers your query, please do not hesitate to contact me if you require any further information.

Yours sincerely



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