

## **HANDY GUIDE TO MIXING RENOLINE RESIN, ACTIVATOR AND ACCELERATOR**

We are often asked as to the correct percentage to use when mixing the accelerator, activator and resin. Please see overleaf a quick reference guide. Please note the figures are not set in stone and can be adjusted to suit the individual requirements and experience.

### **RESIN PREPARATION**

The mixing of resin, accelerator and activator, together with wetting the liner, should wherever possible be carried out in a shaded area as the ultra violet rays of the sun can accelerate the curing time. We advise you to use separate mixing jugs for the accelerator (clear liquid), and the activator/hardener (white liquid), to achieve accurate measurements. We recommend glass Pyrex measuring jugs which are easy to read and clean.

### **RESIN & ADDITIVES CALCULATIONS**

Assuming you have attended a practical training course at our works, it would have been explained that curing times vary due to weather conditions, and the time taken to prepare and install different lengths of lining tubes.

You should keep a log book on each liner you install which would include weather conditions on the day, i.e. cloudy, sunny, temperature, and the overall time taken from the start of mixing the three chemicals together, and wetting out the tube, to finally placing it in the drain, inflating and final curing.

### **GENERAL RULES**

When lining in cold weather conditions you can use higher percentages of accelerator than in warmer conditions. It is recommended that you start with a lower percentage, say 2% of accelerator (clear liquid) to the resin quantity, e.g. 1 litre of resin = 25ml of accelerator, and always a minimum of 3% activator (white liquid). In cold weather this is likely to take anywhere up to 4 hours to cure, but in hot weather it could be half that time, maybe less, possible under 1 hour.

We advise that when you first start lining drains to keep your accelerator percentage to the lower end of the scale until you are totally confident and proficient to increase the percentage.

As stated above it would be impossible to give you precise timings of how long it would take to cure a particular lining tube, but we recommend you be cautious when commencing your initial drain lining contracts.

These calculations are meant as a guide only and Renoline cannot be held liable for any errors.

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### 100mm – 4” RENOLINE (STRUCTURAL) SUPERLINER 2

Length (metre)	Resin (ltr) (minimum)	Maximum 3% at all times Activator (ml) (white liquid)	Minimum 2% Maximum 4%	
			Accelerator (ml) (clear liquid)	
			2%	4%
1	1.1	33	22	44
2	2.2	66	44	88
3	3.3	99	66	132
4	4.4	132	88	176
5	5.5	165	110	220
6	6.6	198	132	264
7	7.7	231	154	308
8	8.8	264	176	352
9	9.9	297	198	396
10	11.	330	220	440

### 150mm – 6” RENOLINE (STRUCTURAL) SUPERLINER 2

Length (metre)	Resin (ltr) (minimum)	Maximum 3% at all times Activator (ml) (white liquid)	Minimum 2% Maximum 4%	
			Accelerator (ml) (clear liquid)	
			2%	4%
1	1.6	48	32	64
2	3.2	96	64	128
3	4.8	144	96	192
4	6.4	192	128	256
5	8.0	240	160	320
6	9.6	288	192	384
7	11.2	336	224	448
8	12.8	384	256	512
9	14.4	432	288	576
10	16.0	480	320	640

### 225mm – 9” RENOLINE (STRUCTURAL) SUPERLINER 2

Length (metre)	Resin (ltr) (minimum)	Maximum 3% at all times Activator (ml) (white liquid)	Minimum 2% Maximum 4%	
			Accelerator (ml) (clear liquid)	
			2%	4%
1	2.70	81	54	108
2	5.40	162	108	216
3	8.10	243	162	324
4	10.80	324	216	432
5	13.50	405	270	540
6	16.20	486	324	648
7	18.90	567	378	756
8	21.60	648	432	864
9	24.30	729	486	972
10	27.00	810	540	1080

### 300m 12" RENOLINE (STRUCTURAL) SUPERLINER 2

Length (metre)	Resin (ltr) (minimum)	Maximum 3% at all times Activator (ml) (white liquid)	Minimum 2% Maximum 4%	
			Accelerator (ml) (clear liquid)	
			2%	4%
1	3.20	96	64	128
2	6.40	192	128	256
3	9.60	288	192	384
4	12.80	384	256	512
5	16.00	480	320	640
6	19.20	576	384	768
7	22.40	672	448	896
8	25.60	768	512	1024
9	28.80	864	576	1152
10	32.00	960	640	1280

**PLEASE NOTE:** The above are minimum requirements and should be adjusted accordingly to your requirements.

4" 3mm thick = 1.30 litres

6" 3mm thick = 1.80 litres

8" 3mm thick = 1.8 litres

9" 3mm thick = 2.70 litres

9" 6mm thick = 4 litres

12" 3mm thick = 3.20 litres

12" 4.5mm thick = 4.05 litres

15" 6mm thick = 6.74

30" 6mm thick = 13.58

18" (450mm)

3mm thick 4.08 litres

4.5mm thick 6.10 litres

6mm thick 8.10 litres