



**DOXMER R110 & R300**  
**High adhesion 1k acrylic resin**

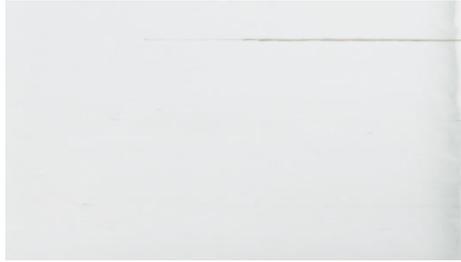
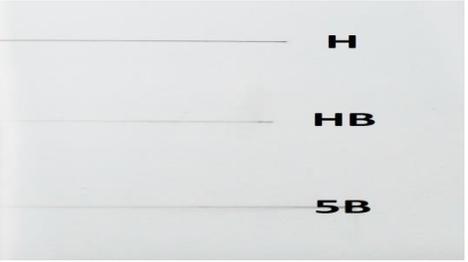
## Product introduction

DOXMER water based resin series provides various features such as fast drying time, high gloss, transparency and adhesion.

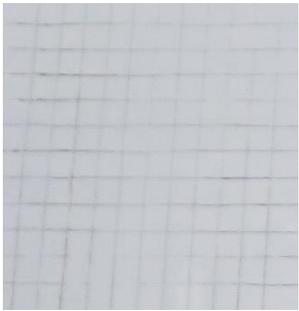
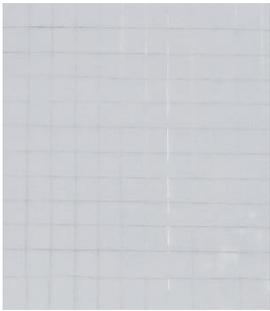
Product	Active content	Tg	Features
R110	40%	30°C	Nano acrylic dispersion: It provides good hardness ,adhesion, and block resistance
R300	42%	-25°C	Acrylic emulsion : It is suitable for various substrates and provides excellent adhesion on it

## Test result

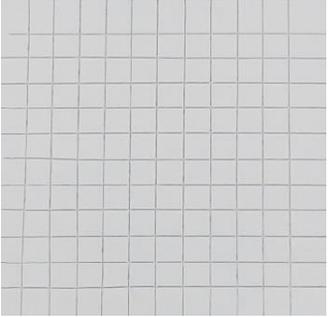
- 1.Tint R110 with white paste for demonstrating the result of pencil hardness.
- 2.Apply coating on glass substrate by 25 µm wire bar coater. Then measure the pencil hardness and drying time.

R110	R300
	
HB	<5B

- 3.Apply coating on metal substrate by 25 µm wire bar coater. Then conduct cross-hatch test

R110	R300
	
5B	5B

4. Apply coating on untreated PET substrate by 25  $\mu$ m wire bar coater. Then conduct cross-hatch test

R110	R300
	
4-5B	5B

5. Apply coating on untreated PET substrate and put 5kg pressure on the top of the folded film for 8 hour after the film is fully cured. Then evaluate the block resistance of the film

R110	R300
	
Slight tackiness (could be improved by wax )	Tackier than R110

## Conclusion

R300 is a good resin for primer due to the outstanding adhesive properties with various substrates .

R110 provides good blocking resistance and adhesive property for different substrates. It is recommended to use for single layer coating and ink. Moreover, R110 can also be incorporated into R300 to adjust desirable properties of the film.