TECHNICAL BULLETIN

## Alkali Resistance



#### Substance of Radianz®

Material	wt%	Remark
Unsaturated polyester resin	7%	Binder
Quartz	93%	Chip and filler
Colorant and additives	small amount	-

### Result of Strong-alkali & Strong-acid Resistance Test

Reagent	PH	Dry/Wet	Discoloration
Comant - Water 2 - 1	1 12.5 -	Dry	Little
Cement : Water = 3 : 1		Wet	Little
Coment - Weter 1 - 2	12 —	Dry	Little
Cement : water = 1 : 3		Wet	Little
3% NaOH	13	Wet	Little
10% HCI	< 1	Wet	Not affect
	Cement : Water = 3 : 1 Cement : Water = 1 : 3 3% NaOH	Cement : Water = 3 : 1 12.5   Cement : Water = 1 : 3 12   3% NaOH 13	Cement : Water = 3 : 112.5Dry WetCement : Water = 1 : 3 $3\%$ NaOH13Wet

\* Exposed time : 24hour

\* Dry : Exposure in the air after staining

\* Wet : Covered with plastic film to prevent evaporation



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#### Conclusion

- Engineered stone may appear discoloration cause by strong alkali.
- The product should be avoided exposure to strong alkali such as cement paste, concrete and so on.
- Alkali resistance of the engineered stone.

РН	Exposed time	Resistance
< 10	< 8 hr	Not affect
> 10	> 8 hr	Discoloration

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