## QUIZ: Volume solids, PVC and hiding power



PLEASE NOTE: For NZIA CPD points this quiz is required to be completed online. Log into the CPD website, you will be prompted to answer the quiz.

| Name:                         |  |
|-------------------------------|--|
| ADNZ # (NZIA see note above): |  |
| Business name:                |  |
| Business postal address:      |  |
|                               |  |
| Phone:                        |  |
| Email:                        |  |

Please complete and return to: By POST: Resene Marketing, PO Box 38242, Wellington Mail Centre, Lower Hutt 5045

By EMAIL: update@resene.co.nz

## Yes / No Please circle the correct answer

- 1. YES / NO The volume solids of a paint can easily be assessed by how thick the paint is.
- 2. YES / NO As the PVC of paint increases the paint becomes lower in gloss.
- 3. YES / NO Dirty coloured pigments usually give much better hiding power than clean, bright coloured pigments.
- 4. YES / NO Pigments with a low refractive index have very low hiding power.
- 5. YES / NO If you place water onto a small pile of salt the hiding power of the salt is increased.



## Multi choice

## Please circle the correct answer

| Ple | ease circle the correct answer  |
|-----|---|
| 6.  | The volume solids of a typical flat paint such as Resene Zylone 20 is:     A. 55-65%.     B. 35-45%.     C. 25-35%.     D. 45-55%.  |
| 7.  | <ul><li>When the volume solids of a paint is too high:</li><li>A. The paint becomes difficult to apply.</li><li>B. Wet edge time will be very short.</li><li>C. Painters are likely to thin the paint and lose the benefits of higher solids.</li><li>D. All of the above.</li></ul>  |
| 8.  | The PVC of a typical gloss acrylic white paint such as Resene Hi-Glo is between: A. 10-20%. B. 30-40%. C. Above 40%. D. Depends on the volume solids of the paint.  |
| 9.  | The PVC of a typical flat white paint such as Resene Zylone 20 is between: A. 10-20%. B. 30-40%. C. 40-50%. D. 50-60%.  |
| 10  | . Quality paint generally has more than lower quality paint. A. Binders. B. Solids. C. Pigments. D. All of the above.   |
| 11  | <ul> <li>Thinning a paint can result in the following problems:</li> <li>A. The paint will not be able to be applied at specified spreading rates.</li> <li>B. The paint may tend to sag.</li> <li>C. Lower durability will result because film builds will be cut by about one third.</li> <li>D. All of the above.</li> </ul> |
| 12  | <ul> <li>. Hiding power of white paints is obtained by:</li> <li>A. Light being scattered by pigments like it is with a prism.</li> <li>B. Light being absorbed by pigments.</li> <li>C. The high content of extender pigments.</li> </ul>  |

D. The binder actually absorbs most of the light.

| 13. Opaque polymers  |
|--|
| A. Are made from an acrylic chemical that is very similar to 100% acrylic binders.   |
| B. Are used to increase the hiding power of paints.  |
| C. Formulated into paint causes the paint to get lighter in colour as they dry   |
| rather than darker.  |
| D. All of the above  |
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| 14. Primers usually have PVCs in the range of?   |
| A. 10 - 20%.   |
| B. 35 - 45%.   |
| C. 55 - 60%.   |
| D. 25 - 35%  |
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| 15. Volume Solids  |
| A. Give a good indication of the quality of paint.   |
| B. Are always high in architectural paints.  |
| C. Are always thick paints.  |
| D. All of the above.   |
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| Written  |
| 16. What is critical PVC and how is this used for a positive effect in ceiling paints and what negative effects can it have? |
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| 17. Explain how pigments generate hiding power.               |
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| 18. What happens to paint as the Volume solids are decreased? |
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