



Different pH stabilizing agents vs. MCR 95

Arguments why to replace ammonia, AMP95, Synergex, Advantex, VantexT with MCR 95:

For ammonia users:

Lower odour of MCR 95: makes easier handling for workers and better odour of final paint.

Lower evaporation rate: better adjustment of pH (do not need to overdossificate for long term stability in can) ammonia evaporates much easier, in cases like wall painting exposed to sun and high temperatures: ammonia will evaporate faster than water and rust stains can appear in nails etc.

Lower VOC contribution. As with AMP 95 you can reduce other components and balance formula to a lower cost. Also reduce VOC contribution with better performance.

For AMP 95, Bisomer Amine, Synergex and Advantex users:

Similar evaporation rate and Boiling Points in similar range, implicates similar VOC content for each product. MCR 95, AMP 95, Bisomer Amine, **Synergex** and Advantex contribute VOC to the paint, but having MCR 95 lower medium Molecular Weight implicates that formulator can reduce up to 30% dosage when compared against AMP 95 and about 50% against Bisomer Amine, **Synergex** or Advantex (which have also bad odour), and in that way reduce significantly VOC contribution to the paint with much less cost! MCR 95 is approved for use in Green Seal **certified** paints.

For Synergex T, Vantex T or similar zero VOC contributing amines:

Dosification of amines in paints is not significant when compared to other VOC contributing compounds that are normally used in paints.

(Considering this: MCR 95 is approved for use in Green Seal **certified** paints.)

Zero VOC amines means that they have very high BP and also high MW.

High Molecular Weight implicates that you have to increase dosage very much to reach same pH and in that way increases cost very much as well.

After paint drying this amines do not evaporate and remain in the dried film, being hydrolysable solids will detract mechanical resistance and performance of the paint. By replacing **Synergex T**, Vantex T or similar with MCR 95, you will not only benefit by a lower cost formulation, it will result in performance benefits such as better water and scrub resistance.

Normally you can find formulations indications for different applications from Cognis, **Taminco**, Arkema or others where you normally find overdossification of AMP 95 in formula, and then comparatives results by reducing the dosage of Bisomer Amine, **Synergex**, Advantex or Vantex T to achieve similar results. (Using like 2.0 for AMP 95 and 1.5 for Advantex) You will not find adjustment to reach same pH starting from lowest quantity, to result in lowest VOC contribution, because in that way if you need 1.0 for AMP 95 you will need 1.2 or higher for Advantex and even much more like 2.0 for Zero Voc amines...

Each formulation is its own universe and the best we can recommend end user is to test their own formula with no further modifications than some dosage reduction to reach same pH with MCR 95.

Use MCR 95 and improve performance and cost!



MCR 95 is approved for application in Green Seal certified paints.

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