



Lower Cost and More Flexible Asphalt Modification with DuPont™ Elvaloy® and Phosphorous Acid (H_3PO_3)

With the increasingly growing need for longer-lasting, lower maintenance pavement, modified asphalt manufacturers are continually looking for ways to improve the asphalt modification process. Many solutions in the market today may not work ideally with all asphalts, particularly those that are heavily polymer modified, highly reactive or contain low asphaltenes. Now, DuPont has demonstrated through new technology (patent-pending) that using DuPont™ Elvaloy® asphalt modifiers with Phosphorous Acid (H_3PO_3) as a co-reactant not only enable efficient processing but more importantly allow a more flexible process specifically for these hard-to-manage paving scenarios. It is important to note that Phosphorous Acid is not Polyphosphoric Acid.

ADVANTAGES OF PHOSPHOROUS ACID WITH ELVALOY®

Phosphorous Acid with Elvaloy® offers some unique advantages.

- Phosphorous Acid is a fraction of the cost of other co-reactants/catalysts.
- Phosphorous Acid with Elvaloy® reduces gelling potential in demanding formulations such as low asphaltene asphalt, highly reactive asphalt, and asphalt requiring a large amount of polymer modifiers.
- Supplemental Elvaloy® can be added to asphalt binders modified with Elvaloy® and Phosphorous Acid to optimize properties.
- Phosphorous Acid with Elvaloy® performs consistently well on Performance Grade (PG), Phase Angle, Elastic Recovery (ER), % Recover (MR) and Multiple Stress Creep Recovery (MSCR) tests.

With improved performance and increased flexibility, the combination of Elvaloy® with the new Phosphorous Acid co-reactant can help you improve your modification process resulting in a lower cost, high quality asphalt that offers ease-of-use. All at a cost that is friendly to your bottom line.

DuPont™ Elvaloy® with Phosphorous Acid (H_3PO_3) Paving Co-reactant

ADVANTAGES

REDUCED COST

MORE FLEXIBLE PROCESS

NON-GELLING

EASY TO REFORMULATE

LET US COLLABORATE WITH YOU TO PAVE THE WAY TO SUCCESS.

Find out more at asphalt.dupont.com

The technical data contained herein are guides to the use of DuPont resins. The advice contained herein is based upon tests and information believed to be reliable, but users should not rely upon it absolutely for specific applications because performance properties will vary with processing conditions. It is given and accepted at user's risk and confirmation of its validity and suitability in particular cases should be obtained independently. The DuPont Company makes no guarantees of results and assumes no obligation or liability in connection with its advice. This publication is not to be taken as a license to operate under, or recommendation to infringe, any patents.

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