



TRIDENT™

TECHNICAL BULLETIN

STRIVING FOR SERVICE EXCELLENCE

The Mystery of the Hurricane Series Dilution Rates Explained

Here's help in choosing the right dilution rate for your project.

TB 9

Whether you are new to using one of the Hurricane 2-Part Urethane Sealers or have experience, here's help in selecting the right dilution rate to achieve the desired outcome for your project ensuring customer satisfaction.

HURRICANE CAT 5 AND CAT 4 DILUTION RATES EXPLAINED

The Hurricane Sealer Series consists of two highly concentrated 2-part reactive urethane sealers that require mixing of Part A and B together followed by dilution with water. Both Hurricane CAT 5 and our newest sealer, CAT 4, offer professional results with two dilution rates: D1 and D2. Do not use any other dilution rate than D1 or D2. The D1 (1:1) ratio is the highest concentration of sealer components vs water. This dilution rate requires less water than D2 and produces less usable sealer. Using D1 will result in the strongest joint stabilization with the highest level of enhancement and sheen. D2 (2:1) requires more water and will successfully seal the surface with a lower level of joint stabilization strength, enhancement and sheen, however it produces more usable sealer.

THE RIGHT DILUTION, APPLICATION AND COVERAGE LEAD TO JOINT STABILIZATION SUCCESS

Hurricane CAT 4 and 5 provide many benefits such as protection and enhancement but their primary function is to stabilize (harden) joint sand in a segmental pavement system. Although initially surface enhancement is the most noticeable, it's the solid sand joint that will reduce sand washout, weed growth, minimize insect infestation and keep the surface looking great long term. For successful joint stabilization, the **first application** of mixed and diluted sealer should be applied as a flood coat. This will provide enough sealer to protect the surface and produce solid joints of bonded sand particles. To ensure the strongest joint stabilization, choose D1, the highest concentration, and apply at a rate of 80 - 120 sf per gallon. Coverage may vary based on type, age, condition and porosity of the surface as well as joint size. Follow up with a light second application at either the D1 (highest level of sheen) or D2 (lower level of sheen) rate after the first coat has dried to the touch.

PRO TIP: When stabilizing sand joints, do **not** use a light spray application as your first coat (150 - 250 sf per gallon) because it will insufficiently saturate the joints. As this first coat dries, a thin layer of joint sand will harden preventing the second application from saturating further. This may lead to joint failure in the future.

DILUTION GUIDES

When selecting which sealer, CAT 4 or 5, and dilution rate(s) to use for your first and second coats, keep in mind your customer's goals for their surface. Are they looking for joint stabilization? High-gloss vs semi-gloss? **Refer to the charts on the next page to guide you in making the right decision for the project.**

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Hurricane CAT 5 is the **ultimate** in sealer performance. At the D1 rate for both applications, CAT 5 will produce the strongest sand joints, ultra-deep enhancement and a high-gloss finish.

HURRICANE CAT 5 Dilution Rate Guide

1st Coat Dilution Rate	2nd Coat Dilution Rate	Joint Stabilization Strength	Enhancement Level	Sheen Level
D1	ULTIMATE PERFORMANCE D1	Ultimate	Ultimate	High-Gloss
D1	D2	Ultimate	Ultimate	Gloss
D2	D1	Best	Best	Gloss
D2	D2	Best	Best	Semi-Gloss

Hurricane CAT 4 offers **advanced** sealer performance compared to industry standards. At the D1 rate for both applications, CAT 4 will produce strong sand joints, deep enhancement and a gloss finish.

HURRICANE CAT 4 Dilution Ratio Guide

1st Coat Dilution Rate	2nd Coat Dilution Rate	Joint Stabilization Strength	Enhancement Level	Sheen Level
D1	OPTIMAL PERFORMANCE D1	Better	Better	Gloss
D1	D2	Better	Better	Semi-Gloss
D2	D1	Good	Good	Semi-Gloss
D2	D2	Good	Good	Satin

For additional helpful tips, be sure to read Trident's other technical bulletins found in the [Resource Library](#) on www.tridentprotects.com.