

## Diamond Shield Fortifier

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## TECHNICAL DATA SHEET

Last Rev Date: May 2019

Freezability: Do not freeze

Shelf Life: 1 to 2 years Application Temperature 50 deg. F and rising

Color: Dark tan talc like powder

Flammability: Non-Flammable

Usage recommendation: 1/2 gallon – 3/4 gallon of Speed-Dry per 100 gallons of raw seal coat used.

Container size: 2-gallon pail, 5-gallon pail, 15, 30, 55-gallon drums

Order: Slight ammonium like scent when mixed with water

## Speed Dry is

SPEED-DRY is a material composition, active curing additive. It makes sealer easy to broom through its enhancement of rheology modification and causes brush marks and cut lines to seem to vanish when the film has dried. SPEED-DRY works with asphalt, coal tar and blended emulsions all three. SPEED-DRY functions safely and significantly to reduce the amount of time required for a surface that's been coated to be reintroduced to vehicle traffic without damage to the film. This is because SPEED-DRY works within the film to actively express water with or without the sun's help.

SPEED-DRY is NOT a latex based additive. SPEED-DRY does NOT contain any acrylic or resin hardeners known to cause seal coat cracking and flaking prematurely like some other additives. SPEED-DRY increases the flexibility of the cured film and improves pavement bonding and film strength.

SPEED-DRY reduces filter and tip clogging and provides a deeper, black finish. SPEED-DRY's rheology modification makes sealer smoother and silkier while lubricating pumps and equipment and allowing for easier clean up. SPEED-DRY will not harm equipment or set up in the tank. Brush marks and cut lines simply disappear.

## Benefits of Active Curing

SPEED-DRY will extraordinarily increase your productivity and bottom line in the normal season while extending your season at both ends for even more profits. You can complete more jobs each month with the same number of man-hours because jobs can be completed and opened the same day without the return trip the next day. More Jobs with the same man-hours = more profit.

Under all conditions including cooler temperatures, in shaded areas and when the sun is not present, except for excessive humidity or ground saturation, SPEED-DRY will drastically

accelerate the cure time of your sealer. Using SPEED-DRY reduces down time. Possible rain in the forecast will no longer leave you guessing whether to seal coat. As long as your film is dry to touch and no longer tacky under your feet it won't wash. With SPEED-DRY, when the film is dry, it's cured and ready for traffic!

## **Active Cure vs. Passive Cure**

SPEED-DRY works through a patented Active Cure Technology. Until SPEED-DRY, seal coat only cured through the passive curing process, which requires the sun to naturally cure a film when its heat and ultra violet rays are applied. SPEED-DRY, DSF and DSO are the only patented active curing products on the market. SPEED-DRY being the strongest. Latex based products have no active curing property and require the sun and the heat of the passive curing process for a seal coat film to cure. The process of sun and heat curing seal coat is slow because the top of the film is closest to the source and thereby cures first and creates a barrier that slows down the dry and cure time for the rest of the film below the top. That's why it is recommended to wait a minimum 24 to 48 hours before the film is reintroduced to vehicle traffic when using only the passive curing power of the sun and heat.

In contrast, SPEED-DRY's Active Cure Technology creates heat and energy within the film. This heat and energy from within expels the moisture from the very bottom up and through the top. This active cure technology thereby works together with the passive curing process to give you the fastest and most consistent cured film known to man. With SPEED-DRY when the film is dry to touch and no longer tacky under foot, all moisture has been expelled allowing you to reintroduce vehicle traffic in only just a few hours after the job has been completed in most cases. No other product on the market does this.

Most "set-fast" or "dry-fast" products are latex based or contain hardeners. Because latex does not have the ability to make the sealer "cure" quicker, there is no comparison to SPEED-DRY. Latex causes the skim over drying effect on the surface of the seal coat to happen faster which traps moisture within the seal coat. This actually further extends the time needed for curing to occur because more moisture is trapped sooner. Set fast products that are not primarily made of latex are hardeners. These products can make the film brittle and cause premature flaking. SPEED-DRY, on the other hand, safely does the same curing work the sun does through Active Cure Technology within the film. With your quality seal coat application, SPEED-DRY will accelerate the cure time safely on every job making every job the best job possible.

SPEED-DRY turns your sealer ultra black every time, because the faster sealer cures the blacker it turns. SPEED-DRY controls tracking and sand roll out. SPEED-DRY reduces costs and increases profits by helping contractors get the job done the first trip. Because of this, with SPEED-DRY you can increase the number of jobs completed each month with the same number of man-hours. This benefit of time savings to the customer along with less down time for jobs such as restaurants or hotels add up to higher value and therefore a higher bid can be justified as well. In this way, SPEED-DRY pays for itself and builds the contractor a better reputation for providing fast turnaround on jobs and a greater flexibility of services to the customer. Therefore, contractors not using **SPEED-DRY** are actually losing time and money.

## **Directions:**

Fill a five gallon pail with roughly twice as much water as the amount of SPEED-DRY you intend to mix up for use. Only mix up the amount of SPEED-DRY you intend to use for the current mixture of sealer as the SPEED-DRY left to stand in the pail will set up and harden by the next day or so and be wasted. Stir 1/2 gallon (8 Cups) – 3/4 gallon (12 cups) of dry SPEED-DRY per 100 gallons of raw sealer being used into the water in the 5 gallon pail until it is liquefied. Using your normal water to seal coat mixture when using SPEED-DRY, mix SPEED-DRY into your sealer mixture well. Also, you will want to mix the liquefied SPEED-DRY into your sealer mix last. Observe all seal coat manufacturer guidelines when using SPEED-DRY. It is not recommended to use SPEED-DRY with latex products if you can help it since the latex products will slow the curing time as they work differently than the SPEED-DRY. If you desire the sand suspension properties that latex products provide it is better recommended to use the DSF along with the SPEED-DRY as it provides much better sand suspension half the price and it works by the same process as SPEED-DRY so it will not retard the curing.

CAUTION Dispose of container and unused contents in accordance with Local, State, and Federal regulations. EMPLOYERS should obtain a copy of the Material Safety Data Sheet (MSDS) from your supplier or directly from our website at [www.diamondshieldfortifier.com](http://www.diamondshieldfortifier.com). Do not heat container, store at temperatures greater than 140° F or store in direct sunlight. DO NOT ALLOW THIS PRODUCT TO FREEZE!

Warning! DO NOT TAKE INTERNALLY! Use eye protection to avoid contact with eyes. In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. Use protective measures to keep off of skin. Wash off well if product comes in contact with skin. It is recommended you wear a positive pressure respiratory mask to avoid exposure to silica dust. If swallowed, CALL PHYSICIAN IMMEDIATELY! GET MEDICAL ATTENTION. KEEP OUT OF REACH OF CHILDREN!

## **WARRANTIES:**

We, the manufacturer, warrant only that this product is free of defects since many factors which affect the results obtained from this product such as weather; workmanship, equipment utilized, and prior condition of the substrate are beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase if proof of purchase from an authorized distributor is provided. DISCLAIMER OF The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose; and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.