

DUSTEX “UNPAVED ROADS” SPRAY-ON APPLICATION GUIDELINES

DUSTEX is calcium-ligno sulphanate, an environmentally friendly natural polymer derived from the wood polymer, lignin. Dustex is supplied as a dry powder in the form of a shrink wrapped pallet with 50x25kg bags = 1,25t. When Dustex is mixed with water, it can be sprayed onto gravel roads to control dust. **DUSTEX** works best when applied to G4/G5 type wear-coarse layers. The LIGNIN binds with the sand and assists in preventing any loose dust from becoming airborne.

Continued use of “**Dustex**” improves crop quality & yields and reduces loss of fines, corrugations & potholes and grading frequencies.

NB: *During transport and storage, always keep DUSTEX powder dry - Store under cover.*

Surface treatments (Spray-on / mix-in application):

1. Road structure should be a reasonably good quality base with wearing coarse layer.
2. Ensure that the road surface is firm, free of excess loose material and has sufficient camber to ensure proper drainage.
3. Ripping the surface down to ± 50 to 100mm will greatly assist **DUSTEX** penetration.
4. Lightly pre-water the road (0.5 l/m^2) to assist **DUSTEX** penetration.
5. First fill water tanker with one third water then slowly pour the dry **DUSTEX** powder into the tanker and simultaneously fill the rest of the two-thirds of the tanker with water. Ideally if this mixed product can stand for a period of time (e.g., overnight) the dilution / suspension will be enhanced.
6. *Ensure that paper or plastic from the packaging does not get into the water tanker as these will block pipes and sprays.*
7. Suggested dosage is a 10% solution, 4 x 25kg bags **DUSTEX** per 1000l water = 100 g/m^2 per 1000 m^2 . (Repeat as per point 9 below).
8. **DUSTEX** will dilute quicker if a recirculation pump is turned on during the mixing process.
9. For gravel roads, **DUSTEX** should be continuously applied as a 10,0% solution as part of the normal watering programme until the required **DUSTEX** level of $\pm 1,0$ to $2,0 \text{ kg/m}^2$ is achieved for optimum dust suppression.
10. Avoid run-off and pooling. Any **DUSTEX** run-off can be bladed back, wetted and reused.
11. The application rate to achieve the desired level of dust control will vary depending on rainfall, climate, traffic and soil conditions.
12. Rejuvenation intervals with **DUSTEX** product between spray cycles will decrease as the **DUSTEX** concentration builds up and takes effect.
13. Periodic light watering with plain water (0.5 l/m^2) between product applications will assist binding of **DUSTEX** and road material. Intervals between watering will vary as with point 11 above.
14. For best results, apply **DUSTEX** after rain when the soil is moist.
15. Due to the nature of the shrink wrapped packaging, dry product and critical storage requirements, Dustex is non-returnable/non-fundable once it leaves our warehouse.
16. Please visit our web: www.patchindustrial.co.za for more information.

GUIDELINES FOR LONG-TERM DUST CONTROL USING DUSTEX

YEAR 1: Initial application of $1,0$ to $2,0 \text{ kg/m}^2$ **DUSTEX** with monthly rejuvenation of $\pm 0,150 \text{ g/m}^2$

YEAR 2: Rejuvenation of $0,75 \text{ kg/m}^2$ **DUSTEX** with twice monthly rejuvenation of $\pm 0,150 \text{ kg/m}^2$

YEAR 3: Rejuvenation of $0,5 \text{ kg/m}^2$ **DUSTEX** with rejuvenation of $\pm 0,150 \text{ kg/m}^2$ every third month.

These guidelines are seasonal and may vary as described in point 11 above.

LIMITATION OF LIABILITY

Patch Industrial Supplies & Consulting (Pty) Ltd shall not be held liable for any loss or damage arising from any cause whatsoever without limitation in connection with the supply, use, storage, application, accident or otherwise of **DUSTEX**.

For assistance, please call Mike on 083 232 5732