Technical Bulletin

Effects of Artificial Drying of the Cement

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REMA TIP TOP Cements are produced from high quality polymers, chemicals, and solvents and are designed to dry over an acceptable period of time without any artificial aids. In fact, artificial aids such as heat guns, hair dryers, and compressed air can, and often do, create conditions which are detrimental to the repair process.

Heat guns or hair dryers can have a two-fold effect on the cement. Blowing hot air across the wet cement with a heat gun or hair dryer usually causes the outer surface of the cement to dry, sealing wet cement at the interface of the tire. When the Repair Unit is applied in this situation, the wet cement is trapped under the repair, next to the tire. Through natural evaporation, this cement then forms a “gas bubble” below the repair. And this causes the Repair Unit to “lift” off the tire during use.

Additionally, the high heat of heat guns can cause the chemicals in the cement, whose purpose is to react with the face gum and cure the repair to the tire, to break down and become less effective. This can cause reduced adhesion to the tire, and subsequent repair failure.

As for compressed air, the contaminants in this medium are almost guaranteed to cause a repair failure. Compressed air contains both moisture and oil, both of which will “kill” most chances of adhesion of the repair to the tire. Often times, these failures will be apparent immediately after the repair installation!

Allowing the cement to dry “naturally” will be the most cost effective, safest, and easiest procedure. It will result in fewer “do overs”, as well as returns for failures.

To aid in the complete drying of the cement after application, we recommend that the tire be rotated to locate the cemented area between the 10:00 o’clock and 2:00 o’clock position (see Fig. 1). By doing so, the gases from the cement will fall to the bottom of the tire, away from the cemented repair area. This will prevent any build-up of residual gas in the buffed tire surface.

Fig 1

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