

IMPROVE LIFE OF NON-STICK UTENSILS

Non-stick pans are rendered useless after the Teflon (or fluoro-polymer) coating has worn-out because of regular usage. This wearing of Teflon can be reduced if it is applied on a rough coating structured base. This can be obtained by the state of art coating process of Arc Spray. The application of Arc Sprayed Stainless Steel (SS) rough structured coating has been proven to drastically increase the working life of many types of cookware. By producing a thin arc sprayed SS layer, the teflon coating penetrates into the sprayed surface. This produces high bond strengths and allows the high wear resistant Arc sprayed Coating to protect the Teflon coating on items such as cooking utensils.



Prior to Arc Spraying, the surface is prepared by grit blasting to SA-2½ specification.

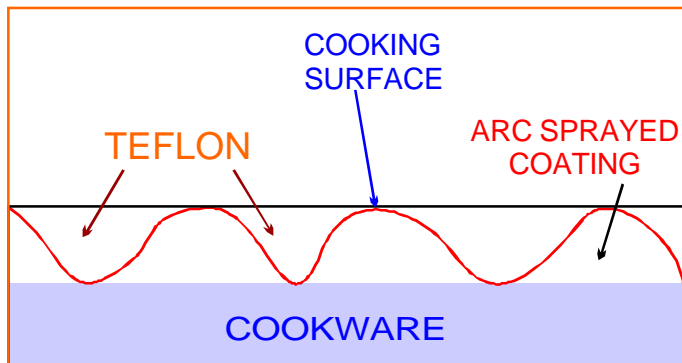


Fig. 1 : Rough Structured Coating

From the Fig. 1, it can be seen that the underlying rough structure of stainless steel is encapsulating the teflon coat. Whenever the teflon coat is scrapped with a scrapper, the SS coating takes up the abrasion wear thereby protecting the smooth teflon coating thus increasing the life of utensil.



In the Arc Spray Process, the raw material in the form of a pair of metallic wires, is melted by an electric arc. This molten material is atomized by compressed air and propelled towards the workpiece. The molten spray solidifies on the component surface to form a dense, strongly adherent coating. **MEC supply complete know-how and equipment for the above application.**



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