CLAIMS

1. A thermal barrier system, comprising:

a protective coating on a substrate; and

a ceramic feature layer attached to said protective coating via an adhesive spray coat, said ceramic feature layer comprises a flared extended area to facilitate a mechanical interlock between said ceramic feature layer and said protective coating via said adhesive spray coat that partially fills said ceramic feature layer such that said ceramic feature layer at least partially extends from said adhesive spray coat.

2. The thermal barrier system as recited in claim 1, wherein said protective coating is an environmental coating.

3. The thermal barrier system as recited in claim 1, wherein said protective coating is a bond coat.

4. The thermal barrier system as recited in claim 1, wherein said adhesive spray coat at least partially fills said ceramic feature layer.

5. The thermal barrier system as recited in claim 1, wherein said ceramic feature layer forms a lattice structure.

6. The thermal barrier system as recited in claim 5, wherein said lattice structure forms a pattern with a multiple of openings, said adhesive spray coat at least partially fills said openings.

7. The thermal barrier system as recited in claim 5, wherein said lattice structure forms a honeycomb pattern, said adhesive spray coat at least partially fills said honeycomb pattern.

8. The thermal barrier system as recited in claim 1, wherein said flared extended area includes an angle of about 5 – 15 degrees with respect to a side wall of said ceramic feature layer.

9. A thermal barrier system, comprising:

a protective coating on a metallic substrate, the protective coating includes a ceramic material; and

a ceramic feature layer mechanically interlocked to said protective coating via an adhesive spray coat, said ceramic feature layer comprises a flared extended area to facilitate the mechanical interlock between said ceramic feature layer and said protective coating via said adhesive spray coat that partially fills said ceramic feature layer such that said ceramic feature layer at least partially extends from said adhesive spray coat.

10. The thermal barrier system as recited in claim 9, wherein said ceramic feature layer forms a lattice structure.

11. The thermal barrier system as recited in claim 10, wherein said adhesive spray coat is about 0.003 to 0.030 inch thick.

12. The thermal barrier system as recited in claim 10, wherein said adhesive spray coat at least partially fills said ceramic feature layer.

13. The thermal barrier system as recited in claim 10, wherein said ceramic feature layer forms a honeycomb pattern.