

The appearance in the art world of new materials for the practice of painting, besides expanding his technical and expressive repertoire, can be an interesting challenge for the artist.

The Doctoral Thesis, *The acrylic resins in aqueous dispersion: alternative uses of a painting material*, reveals some of the operational possibilities of these resins when in an artistic practice, rather than being used as the binder of the paint or the fundamental ingredient of the mediums of the so-called acrylic paints —the essential reason for its existence as a pictorial material—, are used in an alternative and autonomous way.

The research begins with a theoretical approach that deals with the chemical aspects that define these materials and that make it possible to distinguish them from other synthetic resins, and at the same time frames its specific use as a painting material. This theoretical approach is complemented by a historical journey that begins with their industrial origin and subsequent development and that ends, finally, with its use in the manufacture of paint for artists and the initial use of these paints as a means of expression of prominent painters.

After this theoretical introduction we analyze the practical application of the acrylic resins in aqueous dispersion. It begins with the study of a more conventional use of this material and concludes with what might be considered the core of the thesis and its main contribution, the possibilities that go beyond these conventional uses.

This central part is built with two specific alternatives: first the use of the acrylic resin as what we call "transparent paint", and second, its use as paint and as support at the same time.

In the more conventional way as in the alternatives uses, visual documentation and a detailed description of the various processes that have taken place in the execution of each of the tests performed are included and, as a conclusion, there are a series of works which illustrate, definitively, the technical and expressive possibilities of these acrylic resins.