

DENTAL D
ACETAL RESIN®



More than just Clasps

The answer to the growing need for new materials in high technology fields, is the production of Technopolymers deriving from organic chemistry, that are now also an important feature of the Biomedical field.

The first aesthetical clasp was produced in 1986 in DENTAL D®, completely built in Technopolymers for Dentistry.

Since then, thanks to the versatility and chemical-physical characteristics of DENTAL D®, and above all, to the research and success obtained by various qualified Dentists and Technicians, the application with original solutions has increased, giving good results for prosthodontics, implantology and orthodontics.

For this reason, DENTAL D®, has always been "more than just Clasps".

IMPERIAL TRADING LTD.
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Exclusive dealers for Dental-D



QUATTROFI

Ten reasons for choosing:

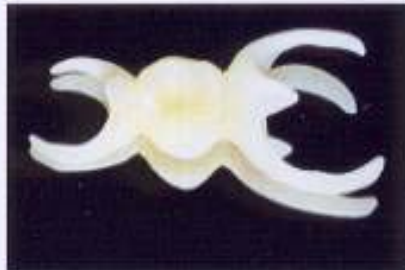


AESTHETICAL CLASPS

The high resistance to possible fractures, the elastic memory, self-lubrication and biological acceptance of DENTAL D[®], enable the production of extra-crown anchorage in all removable partial prostheses, improving the aesthetic aspect and functionality.

Thanks to the fact that there is no wear on the pillar element, the elimination of aesthetic problems and the possibility to exploit the maximum area of the undercut, guarantee a valid anchoring with excellent resistance results.

Furthermore, if a traditional metal clasp has to be replaced, for break or for aesthetic reasons, this can be done easily and economically without having to remove the saddles (11,12,17,18,28,31,33,34).



REMOVABLE BRIDGES AND SPACE MAINTAINERS

A big practical problem is created by single or multiple edentulousness in the post-canine sector that cover the aesthetic and functional sphere.

The high degree of elasticity and resistance of DENTAL D[®] enables maximum exploitation of all undercuts, therefore making it practically impossible to remove with the tongue. Furthermore this new prosthetic alternative enables the possibility to obtain incredible aesthetic and comfortable results (11,19,21,25,27,28,30).



POST-SURGICAL REMOVABLE BRIDGES

In implantology DENTAL D[®] is indicated for the production of prostheses for temporary protection, where long periods of healing make the use of space maintainers particularly necessary.

This not only protects the physiological migration of the adjacent and antagonistic teeth, but also resolves the aesthetic and functional needs, preserving the tissue underneath. Thanks to the characteristics of this material it is possible to make very thin structures that are able to resolve aesthetic problems, even in the anteriors, that the patient will find very comfortable (11,21,25,26,27,28).



TEMPORARY BRIDGES

Whenever it is necessary to maintain a temporary bridge in the oral cavity for quite a long time, while protecting the tissue and functionality, the answer is DENTAL D[®].

A temporary bridge completely built in acetal resin is not only economical but is also undestructable, allergic, atoxic and very resistant to wear due to mastication.

The aesthetic aspect is ensured thanks to an appropriate range of surface colours (2,3,6,8,11,33,38,44).



REINFORCEMENT STRUCTURES FOR TEMPORARY BRIDGES

With DENTAL D[®] a reinforcement can be built for acrylic temporary bridges, therefore reducing the costs and time necessary to build a metal structure.

This solution helps the prosthodontist for long term needs, and in all cases in which a reinforcement structure is necessary for standard prostheses, so that, if the acrylic covering fractures, the internal frame is not damaged.

Furthermore the shine and wide range of available colours guarantee a perfect aesthetic result (2,3,5,6,11,26,31,45).



DENTAL D®



POSTS

Recent researches have demonstrated the validity of DENTAL D® Technopolymers in building indirect technique posts.

Thanks to the elastic characteristics combined with a high compression and breakage resistance, abutments can be built also in the pluriradiculars exploiting all the channels without using dap joint techniques.

Other advantages can be obtained thanks to the well known properties of acetal resin, i.e.: biological acceptance, no thermal or electrical conductivity (galvanism), low specific weight, excellent aesthetical appearance and economy (9,10,11,14,15,16).



REMOVABLE PROSTHESIS ANCHORING

The use of ball or bar anchorage in DENTAL D® is a valid alternative to obtain a secure anchorage in overdentures and in all temporary and final applications. Comparative researches have demonstrated that the high wear resistance characteristics and the considerable self-lubrication ensure to the prosthesis an excellent stability. Two are the main advantages noticed by the patient: there are no continuous replacements and the softness when being inserted (7).



PROSTHETIC IMPLANTOLOGY

Calcifiable abutment superstructures covered in DENTAL D® offer the possibility to have a non metallic transmucous path, avoiding aesthetical problems caused by the transparency of the upper soft tissues and by their possible future withdrawal. Another advantage is the colour of the extramucous post similar to that of dentine that makes it possible to build a "jacket" crown entirely in ceramic.

Furthermore, it can be presumed that the high elasticity and resilience of DENTAL D® make it suitable to absorb stresses that would otherwise be impressed on the screw or implant (1,3,5).



CONTAINEMENTS

The containment ferula in DENTAL D® forms the ideal combination between functionality and aesthetical appearance.

The high rupture resistance together with the elasticity and precision of the material, allow a remarkable reduction of the item size, improving the phonetical result.

If you add the personalization of the colour to this, a much easier cooperation with the patient can be reached, compared to traditional containments.

Furthermore, thanks to the elastic memory of DENTAL D®, it is possible to obtain small dental movements, previously programmed by a set-up (8,11,21,22,44,45,47).



ORTHODONTIC DEVICES

The chemical, physical and mechanical properties of DENTAL D® make it possible to produce self-functional and multifunctional orthodontic devices unique in their kind.

In these applications the elastical characteristics of DENTAL D® can be exploited completely, making orthodontic devices that enable a self-activating effect, previously programmed in the laboratory by the preparation of a set-up (11,20,23,24,25,36,37,38,39,40,41,42,43,46).



DENTAL D® easy to use



WORKING METHOD

DENTAL D® is a thermoplastic polymer with no monomer disguised as solid tablets. Its processing, similar to that of an alloy, is carried out by means of the MG-NEWPRESS® injection system.
Having prepared the item model in wax on the duplicate of the master model, a traditional plaster muffle is manufactured with injection canals system.
Once the wax is removed the Dental D® Technopolymer can be injected (1).



MG-NEWPRESS® THERMO-INJECTION

DENTAL D® thermo-injection takes place by inserting the cartridge that contains the selected colour, into the MG-NEWPRESS® oven, previously preheated to 220 degrees C.
After 20 mins, during which the casting takes place, the muffle is positioned in order to proceed with the injection at a pressure of 7/8 atm.
When completely cold, the prosthetic item can be removed and finished with standard finishing equipment for resins and finally polished with POLISH D®.



DENTAL D® is a Technopolymer based on polyoxymethylene. The regular molecular structure, very crystalline, makes DENTAL D® one of the Technopolymers with the highest mechanical and chemical-physical characteristics. The exceptional physiological behaviour, the ample range of mechanical and chemical-physical characteristics enable DENTAL D® to replace metals and acrylic resins in many prosthetic applications.

GENERAL FEATURES

- * Exceptional traction and impact resistance
- * Optimum combination rigidity-tenacity
- * Optimum resilience and creep resistance
- * Low static and dynamic friction coefficient
- * Optimum dimensional stability
- * High abrasion resistance
- * High elastic memory
- * Anallergic, non-toxic, biologically accepted
- * Aesthetic, economic, of simple processing

But the most exceptional feature of DENTAL D® is that it maintains all its properties in different working conditions, i.e.: high humidity values, exposure to chemical agents, continuous cycle stresses.

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