

DIRECTA
ceramir[®]
Pediatric Crown



Nature inspired innovation
with predictable and reliable results.

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Pediatric Crown

**Ceramir Pediatric Crowns
set a new standard in restorative
dentistry for children.**

A patented laser sintering technology allows the creation of a unique material that mimics the characteristics, aesthetics, and anatomy of a natural tooth.

Ceramir Pediatric Crowns are designed to allow you to work with a minimally invasive strategy, preserving as much dentine as possible.

They provide a simple and fast workflow to improve the overall treatment experience for the child. In addition, Ceramir Pediatric Crowns are biocompatible, bisphenol A free and non-toxic.



Patented laser sintering technology creates a unique combination of strength, flexibility and aesthetics



Bisphenol A free
and non-toxic



Minimally invasive



Reduced
chairside time



Permanent natural appearance



Easy to adjust and repair

Easy to Use and Patient Friendly



Effective Workflow

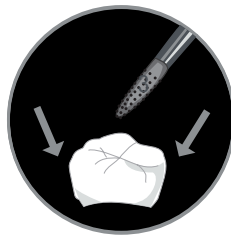
Ceramir Pediatric Crowns are prefabricated with a design mimicking the anatomy of primary teeth. The crowns come in many sizes and are easily seated with a light-curing composite.

The crown can be adapted to the preparation design and can easily be converted to a partial crown. The simple workflow of Ceramir Pediatric Crowns allows for minimal tooth preparation, a fast and safe treatment reducing chairside time and improving the overall treatment experience for the child.

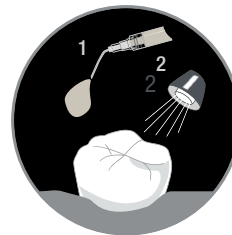
Ceramir Pediatric Crowns in 3 Simple Steps



Select crown size
with sizing guide set



Adjust crown
(Margins, approximal
contacts mesial/distal)

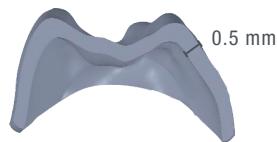
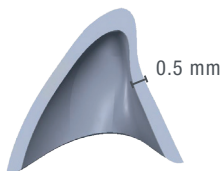


Cement crown



Minimally Invasive, Adjustable and Easy to fit

Ceramir Pediatric Crowns require minimal or no tooth preparation, preserving as much tooth structure as possible. The design of the tooth preparation is determined by the extent of caries removal with a margin thickness of only 0.5 mm, whereas many other paediatric crowns require 1.0 mm or more.



Ceramir Pediatric Crowns can easily be individually adjusted and adapted to fit the needs of each patient. In case of high occlusal points, the crown can very easily be adjusted in the mouth without cutting the opposing tooth. The crowns can even be converted to partial crowns if the clinical situation requires it.



Reparability

If needed Ceramir Pediatric Crowns can easily be repaired in the mouth using a light-curing composite.

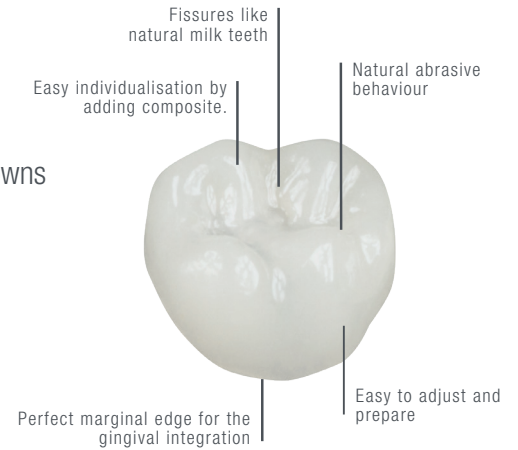


Morphology and Aesthetics - Inspired by Nature

Ceramir Pediatric Crowns are prefabricated for primary teeth with optimal fit and function to ensure a precise fit on the child's tooth. This improves functionality and aesthetics by closely mimicking the appearance of a natural tooth both in colour and shape.

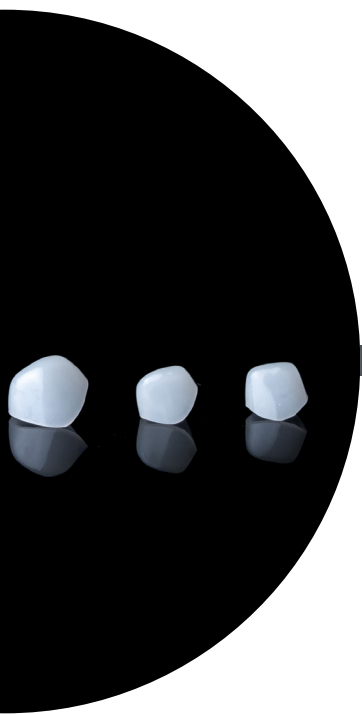
The material of Ceramir Pediatric Crowns has a homogeneous glass like structure with a natural translucency and a high gloss surface, mimicking the enamel of a natural tooth.

By using a special laser sintering technology, Ceramir Pediatric Crowns can be produced with very thin walls. This allows you to work less invasively, preserving as much tooth structure as possible.



INDICATIONS

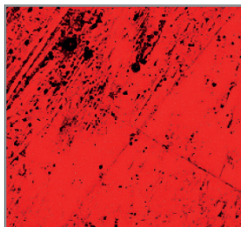
- Anterior and posterior restorations
- Fractured primary teeth following trauma
- Poor enamel quality
- Erosion



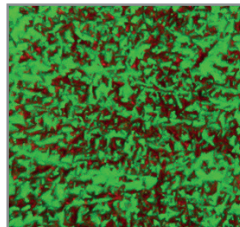
Free of Bisphenol A

Ceramir Pediatric Crowns are biocompatible, free of Bisphenol A, non-toxic and cause no irritation to skin or mucosa- a perfect child friendly solution*.

The shiny and smooth surface texture of Ceramir Pediatric Crowns is preventing biofilm and bacterial growth which facilitates the patient's daily oral hygiene and avoids marginal staining.



Test sample-Ceramir Pediatric Crown: no biofilm formation following exposure to bacteria.



Control sample - composite restorative material: Biofilm formation following exposure to bacteria.

*Toxicity Studies: Human Stem Cells Intracutaneous reactivity test (ISO 10993-23:2021) and skin sensitization test (ISO 10993-10:2021) - Data on file.



Unique Shock-absorbing Effect

The unique material of Ceramir Pediatric Crowns has the strength of particle infiltrated ceramics (lithium disilicate), the aesthetics of feldspathic glass ceramics without the brittleness of pure ceramics, and the flexibility similar to dentine. This combination of properties creates a unique shock-absorbing effect that prevents damage to the opposing teeth.

Technical Data	DEJ Dentine-Enamel Junction	Ceramir Pediatric Crown
Flexural Strength (Biaxial)	199,3 MPa	200 MPa
Compressive Strength	384 MPa	550 MPa
Flexural Modulus	20 GPa	20 GPa
Surface Hardness	159 HV	100 HV

Source: University of Geneva | Technical data from
manufacturer's documentation

Patient Case

Multiple caries lesions in a very young patient.

Female patient, 4 years old. Main patient complaint: painful teeth during meals.

A 4-year-old girl was referred to the Childrens Dental Center in New Delhi due to pain from her teeth while eating and the presence of visible caries lesions in the upper front teeth. Clinical examination showed multiple caries lesions. The objective of the initial treatment plan was to relieve pain symptom and remove pathology, this also included to restore function and aesthetics.

BEFORE
TREATMENT



4 MONTHS AFTER
TREATMENT



Dental Team:

Dr. Kunal Gupta, Pediatric Dentist
New Delhi, INDIA

Material:

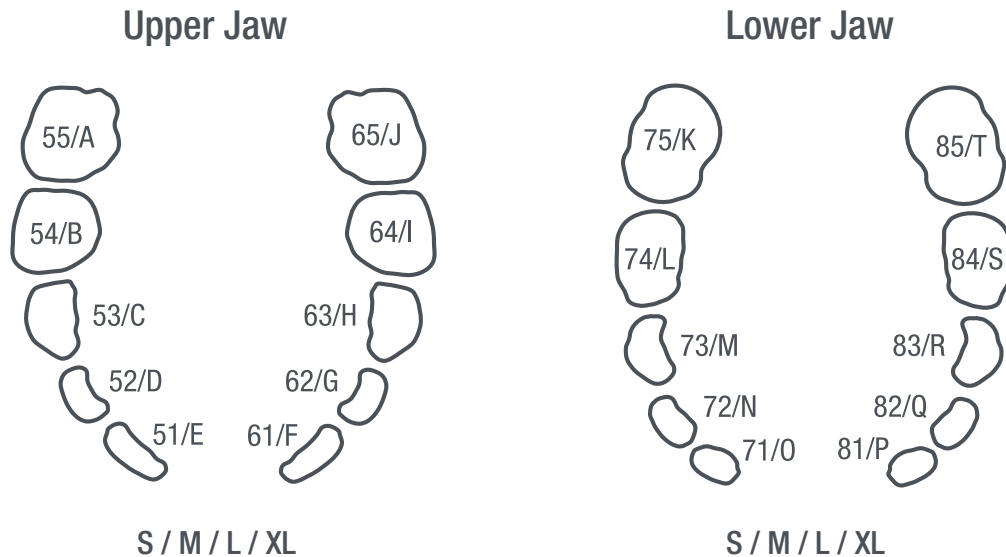
Ceramir Pediatric Crowns
Size- Medium

Images: Courtesy of Dr. Kunal Gupta

Type and Size

Prefabricated to fit all sizes of primary teeth

Ceramir Pediatric Crowns are available in small, medium, large and extra-large sizes. Mesial-distal width ranges from 5.7 mm to 7.7 mm (upper incisors) and 9.8 mm to 13.1 mm (lower molars).



Ceramir Pediatric Crown Sizing Guide

To choose the correct crown size you simply use the Ceramir Pediatric Crown Sizing Guide.

Using the Ceramir Pediatric Crown Sizing Guide, the correct crown size is selected by measuring the mesio-distal width at the level of the contact point of the prepared tooth, or by measuring the width of the contra-lateral tooth.

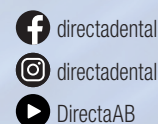


REF	Product Description	Pieces
805180	Ceramir Pediatric Crown Start Kit Complete 80 x Ceramir Pediatric Crowns (1 of each item) 1x Ceramir Primer, 1x Each Size guide	80 pcs/box
805181	Ceramir Pediatric Crown Start Kit Small 40 x Ceramir Pediatric Crown (1 of each - sizes Medium & Large) 1x Ceramir Primer, 1x Each Size guide	40 pcs/box
805100 / 805101/ 805102/ 805103	Ceramir Pediatric Crown 51/E Small /Medium/Large/X-Large	2 pcs/box
805104/ 805105/ 805106/ 805107	Ceramir Pediatric Crown 52/D Small /Medium/Large/X-Large	2 pcs/box
805108/ 805109/ 805110/ 805111	Ceramir Pediatric Crown 53/C Small /Medium/Large/X-Large	2 pcs/box
805112/ 805113/ 805114/ 805115	Ceramir Pediatric Crown 54/B Small /Medium/Large/X-Large	2 pcs/box
805116/ 805117/ 805118/ 805119	Ceramir Pediatric Crown 55/A Small /Medium/Large/X-Large	2 pcs/box
805120/ 805121/ 805122/ 805123	Ceramir Pediatric Crown 61/F Small /Medium/Large/X-Large	2 pcs/box
805124/ 805125/ 805126/ 805127	Ceramir Pediatric Crown 62/G Small /Medium/Large/X-Large	2 pcs/box
805128/ 805129/ 805130/ 805131	Ceramir Pediatric Crown 63/H Small /Medium/Large/X-Large	2 pcs/box
805132/ 805133/ 805134/ 805135	Ceramir Pediatric Crown 64/I Small /Medium/Large/X-Large	2 pcs/box
805136/ 805137 805138/ 805139	Ceramir Pediatric Crown 65/J Small /Medium/Large/X-Large	2 pcs/box
805140/ 805141/ 805142/ 805143	Ceramir Pediatric Crown 71/O Small /Medium/Large/X-Large	2 pcs/box
805144/ 805145/ 805146/ 805147	Ceramir Pediatric Crown 72/N Small /Medium/Large/X-Large	2 pcs/box
805148/ 805149/ 805150/ 805151	Ceramir Pediatric Crown 73/M Small /Medium/Large/X-Large	2 pcs/box
805152/ 805153/ 805154/ 805155	Ceramir Pediatric Crown 74/L Small /Medium/Large/X-Large	2 pcs/box
805156/ 805157/ 805158/ 805159	Ceramir Pediatric Crown 75/K Small /Medium/Large/X-Large	2 pcs/box
805160/ 805161/ 805162/ 805163	Ceramir Pediatric Crown 81/P Small /Medium/Large/X-Large	2 pcs/box
805164/ 805165/ 805166/ 805167	Ceramir Pediatric Crown 82/Q Small /Medium/Large/X-Large	2 pcs/box
805168/ 805169/ 805170/ 805171	Ceramir Pediatric Crown 83/R Small /Medium/Large/X-Large	2 pcs/box
805172/ 805173/ 805174/ 805175	Ceramir Pediatric Crown 84/S Small /Medium/Large/X-Large	2 pcs/box
805176/ 805177/ 805178/ 805179	Ceramir Pediatric Crown 85/T Small /Medium/Large/X-Large	2 pcs/box
805202	Ceramir Pediatric Crown Sizing Guide Set	8 pcs /box
10521	Edelweiss Veneer Bond	1 pc /box

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TECHNOLOGY BY

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