

Materials We Use

Fissure Sealant

UltraSeal XT® Plus

Light cure pit and fissure sealant and flowable composite

Composition/ Information on Ingredients:

Chemical Name	CAS	EINECS	Classification	Wt. %
Diurethane Dimethacrylate	72869-86-4	276-957-5	Xi;R36/37/38	<10
Bis GMA	1565-94-2	216-367-7	Xi;R36/37/38	<20
2-Dimethylaminoethyl Methacrylate	2867-47-2	220-688-8	T, Xi; R22, R34, R36/37/38, R43	<1
Sodium Monofluorophosphate	10163-15-2	233-433-0	T; R22, R38	<1
Titanium Dioxide	13463-67-7	236-675-5	R36/37/38 R22	<1

Fluoride Varnish

3M ESPE Omni Cavity Shield

Composition/ Information on Ingredients:

Ingredients	CAS Number	% by WEIGHT
Colophony	8050-09-7	20 – 75
Polyamide Resin	None	20 – 75
Ethanol	64-17-5	4 – 30
Sodium Fluoride	7681-49-4	1 – 10
Flavour	Unknown	1 – 5

White Fillings

Glass Ionomer

GC Fuji IX

Composition/ Information on Ingredients:

Ingredients	CAS Number	% by WEIGHT
Alumino Silicate Glass	Not listed	95
Polyacrylic Acid Powder	9003-01-4	5

Composite

GC Gaenial Posterior

Composition/ Information on Ingredients:

Ingredients	CAS Number	% by WEIGHT
Urethane Dimethacrylate	CAS 72869-86-4	10 – 15
Methacrylate	CAS not listed	5 – 10
Silicon Dioxide	CAS 7631-86-9	1 – 5
Fluoro Alumino- Silicate Glass	CAS not listed	45 – 50
Composite Filler	CAS not listed	30 – 35
Pigment	CAS not listed	< 1
Photo Initiator	CAS not listed	< 1

Temporary Material

Dentsply IRM

Intermediate Restorative Material

- IRM Powder

Composition/ Information on Ingredients:

Ingredients	CAS No	% Weight
Zinc Oxide	1314 – 13 -2	50 - 100

Hazardous Components	CAS No	Exposure Limits	%
Zinc Oxide	1314-13-2	10mg/M ³	>than 75

Composition/ Information on Ingredients:

Ingredients	CAS No	% Weight
Eugenol	97-53-0	>50

- IRM liquid

Amalgam Filling

SDI Permite C

Composition/ Information on Ingredients:

Ingredients	% Weight
Ag	56
Sn	27.9
Cu	15.4
In	0.5
Zn	0.2
Hg	47.9

Hazardous Ingredients	% Weight	CAS No	EC No	Index No
Mercury, metallic (40-50% of total product)	100	7439-97-6	231-106-7	080-001-00

Physical properties:

alloy particle	spherical and lathe cut
compressive strength @ 1 hour	260MPa (37,700psi)
compressive strength @ 24 hours	500MPa (72,500psi)
diametral tensile strength @ 1 hour	28MPa (4,060psi)
diametral tensile strength @ 24 hours	54 MPa (7,830 psi)
static creep @ 7 days	0.2%
dimensional change @ 24 hours	+4µm/cm

Stainless Steel Crown

Composition / Information on Ingredients:

Ingredients	CAS Nbr	% by Weight
Stainless Steel	12597-68-1	100

SSC Luting Cement

Fuji Plus

Reinforced glass ionomer cement

Liquid Component: Hazardous ingredients/identity information:

Component	CAS	Exposure limits	LD/LC50	%
Distilled Water	7732-18-5	NE	NE	20 – 30
Polyacrylic Acid	9003-01-4	TWA10ppm ACGIH	LD50=2500mg/Kg (oral rat) LC50 = NE	20 - 30
2-Hydroxyethylmethacrylate	868-77-9	N.E	LD50=5888mg/Kg (oral rat) LC50=N.E	25 - 35
Urethanedimethacrylate	72869-86-4	N.E	N.E	5 - 10

Powder Component: Hazardous ingredients/identity information:

Component	CAS	Exposure limits	LD50/LC50	%
Alumino – Silicate Glass	Not Listed	TLV = 10mg / m ³ PEL= 15mg/m ³ ACGIH)	N.E	95 - 100

Local Anaesthetic

Xylestesin™-A

Anhydrous Lignocaine Hydrochloride 20mg (R)-Adrenaline Hydrochloride 0.015mg (equivalent to 0.0125mg base) Solution for injection (local anaesthetic for dentistry)

Composition (1 ml solution for injection):

Active ingredients:

Anhydrous Lignocaine Hydrochloride 20 mg
(R)-Adrenaline Hydrochloride 0.015 mg (equivalent to 0.0125 mg base)

Other ingredients:

Anhydrous Sodium Sulphite 0.6 mg (equivalent to 0.31 mg SO₂)
Sodium Chloride
Water for injections

Ubistesin

Composition (1 ml solution for injection):

Active ingredients:

Articaine hydrochloride 40 mg (4%)
Adrenaline hydrochloride 0.006 mg (corresponding to 5 µg adrenaline (1/200 000

Other ingredients:

Sodium sulphite max. 0.6 mg (equivalent to max. 0.31 mg SO₂)
Sodium chloride, Water for injections, Hydrochloric acid and sodium hydroxide solution for adjusting the ph-value