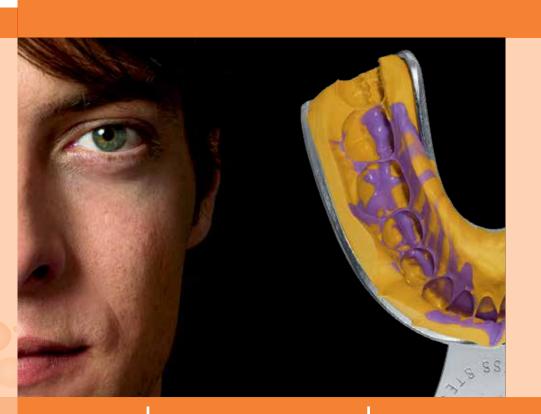
Imprint[™] 4

VPS Impression Material



Fast Precise Innovative Active Self-Warming



ImprintTM 4



Why will you be so enthusiastic about Imprint™ 4?

The reason is simple: top precision, time-saving processes and comfortable handling can help you to increase the efficiency of your dental practice. As a world leader in the field of impression solutions, 3M™ ESPE™ gives you the right product for the job: Imprint 4.

See for yourself!

Convincing time savings and precision



The fastest route to stress free impressions*



The impression material with active self-warming.

Imprint™ 4 VPS Material features the shortest intra-oral setting time of all precision impression materials on the market. This is achieved by active self-warming, which 3M ESPE developed exclusively for Imprint 4. A unique chemical reaction causes the material to actively and quickly warm up to body temperature after the working time, substantially accelerating the intra-oral setting. The usual working time is not affected so the impression process will be stress-free for you. The result - you gain time and efficiency and your patient is more comfortable.

*Data on file

These images, taken with a thermographic camera, demonstrate Imprint 4's unique active self-warming: among competing products, only Imprint 4 material reveals a significant temperature rise to body temperature.

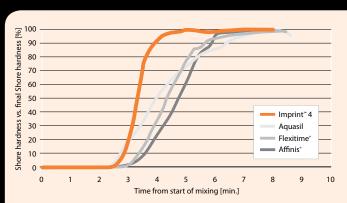
Imprint™ 4
Penta™ Heavy
(3M ESPE)

Aquasil
Flexitime® Dynamix
Heaving Tray
Heavy
Heavy Tray
(Heraeus Kulzer)

Kettenbach)

Infrared images of Imprint" 4 Penta" Heavy VPS Material (3M ESPE), Aquasil Ultra Heavy DECA" 380 (Dentsply), Flexitime® Dynamix Heavy Tray (Heraeus Kulzer) and Panasil® tray Soft heavy (Kettenbach). Only Imprint" 4 Material shows a significant temperature increase. All images were taken at room temperature (23 °C/73.4 °F).

Images above show the materials at the time of their maximum temperature. Source: 3M ESPE internal tests



Imprint 4 material's active self- warming leads to a steep increase in Shore hardness which can be equated with accelerated setting. The graph demonstrates that Imprint 4 shows the fastest setting compared to competing VPS materials, making the short intra-oral setting time possible.

Progression of setting reaction characterized by increase in Shore hardness measured in different quick setting heavy bodies. Intra-oral setting times are shorter than those measured at room temperature (23°C/73.4°F). Materials tested: Imprint" 4 Super Quick Heavy (3M ESPE), Aquasil Ultra Heavy Fast Set (Dentsply), Flexitime® Heavy Body (Heraeus Kulzer), Affinis® heavy body fast (Coltene). Source: J.C. Farr, H. Hoffmann, A. Maurer, P. Osswald, E. Wanek, Shore Hardness Increase of Tray Materials during Setting, CED IADR 2012, #674

Super hydrophilicty even in the unset state

Highly precise impressions

A new and unique feature of Imprint[™] 4 VPS Impression Material is its extremely hydrophilic behaviour – even in the unset state. With its optimal flow, Imprint 4 captures even the finest details.

A simple test demonstrates this feature: If you put a water droplet on the interface of two unset impression materials, it will flow to the material with the higher hydrophilicity – i.e. with the higher affinity for water or another aqueous solution.

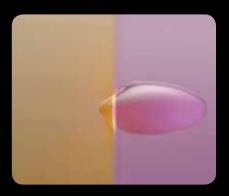
In a direct comparison with competing VPS impression materials, the water droplet always flows to the more hydrophilic Imprint 4 material (shown right).



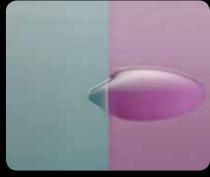
A water droplet is applied ...



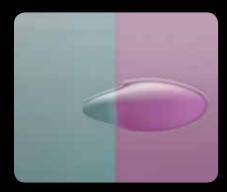
 \dots to the interface of two unset light body VPS impression materials (40 seconds after start of mixing).



Aquasil Ultra XLV (Dentsply) vs. Imprint™ 4 Light (3M ESPE)



Flexitime® Light Flow (Heraeus Kulzer) vs. Imprint™ 4 Light (3M ESPE)



Panasil® initial contact Light (Kettenbach) vs. Imprint™ 4 Light (3M ESPE)

Source: 3M ESPE internal data. Data available on request at 3M ESPE. Contact see back side.

Imprint[™] 4

versatile and unique

Imprint™ 4 VPS Impression Materials are available in perfectly coordinated contrasting colours, viscosities and different working/setting times. Whatever your requirements may be and whichever techniques you favour – the Imprint 4 family provides an optimal solution. Just choose your preferred material combination. All tray materials – including putty – are available for automatic mixing in the Pentamix™ System from 3M ESPE.

A unique feature of Imprint 4 is that the Intra-oral set times given below are the true maximum set times "independent" of working time used, in otherwords - The total set time = Actual working time used plus the designated intra-oral set time of either 2.30, 2.00 or 1.15.

| | | Maximum working time (23°C) | Maximum intra-oral syringing time (37°C) | Constant intra-oral setting time (37 °C) | | | |
|---|--|-----------------------------------|--|--|--|--|--|
| PENTA™ TRAY MATERIALS | | | | | | | |
| | Imprint™ 4 Penta™ Putty | 1:30 | - | 2:30 | | | |
| | Imprint™ 4 Penta™ Heavy | 2:00 | 7 | 2:00 | | | |
| | Imprint™ 4 Penta™ Super Quick Heavy | 1:15 | - | 1:15 | | | |
| GARANT™ WASH MATERIALS | | | | | | | |
| | Imprint™ 4 Super Quick Ultra-Light | 1:15 | 0:35 | 1:15 | | | |
| | lmprint™ 4 Light | 2:00 | 1:00 | 2:00 | | | |
| | Imprint™ 4 Super Quick Light | 1:15 | 0:35 | 1:15 | | | |
| | Imprint™ 4 Regular | 2:00 | 1:00 | 2:00 | | | |
| | Imprint™ 4 Super Quick Regular | 1:15 | 0:35 | 1:15 | | | |
| VPS PRELIMINARY IMPRESSION MATERIAL - ALGINATE SUBSTITUTE | | | | | | | |
| | Imprint™ 4 Preliminary Penta™ Super Quick | 1:00 | - | 1:30 | | | |
| | Imprint™ 4 Preliminary Penta™ | 1:30 | - | 2:00 | | | |

Imprint 4 materials are available in two setting regimes: The "Super Quick" setting materials are the ideal solution for impressions for 1 to 2 units. Imprint 4 Light & Regular Body offer longer working / setting times and thus are perfectly suited for larger and more complex cases offer longer working times and thus are perfectly suited for larger units.





Recommended material combinations



Ordering Information

| Item No. | Product Information | Item No. | Product Information |
|----------|--|----------------|---|
| | Trial/Intro Kits for Pentamix™ 3 | | Refills – Wash Materials |
| 71499 | Imprint™ 4 Penta™ Putty Trial Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Ultra-Light cartridge – 50 ml, 10 Penta™ Mixing Tips red, 5 Garant™ | 71491 | Imprint [™] 4 Super Quick Ultra-Light Refill 4 Imprint [™] 4 Super Quick Ultra-Light cartridges – 50 ml each, 5 Garant [™] Mixing Tips yellow, 5 3M [™] ESPE [™] Intra-Oral Syringes green |
| 71497 | Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow Imprint™ 4 Penta™ Heavy Trial Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Light | | Imprint™ 4 Light Refill 4 Imprint™ 4 Light cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes greer |
| 71498 | cartridge – 50 ml, 10 Penta™ Mixing Tips red, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow Imprint™ 4 Penta™ Super Quick Heavy Trial Kit | 71490 | Imprint™ 4 Super Quick Light Refill 4 Imprint™ 4 Super Quick Light cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green |
| 7 1490 | 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Light cartridge – 50 ml, 10 Penta™ Mixing Tips red, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow | 71487 | Imprint [™] 4 Regular Refill 4 Imprint [™] 4 Regular cartridges – 50 ml each, 5 Garant Mixing Tips yellow, 3M™ ESPE™ Intra-Oral Syringes green |
| 71496 | Imprint™ 4 Penta™ Putty Intro Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Ultra-Light cartridge – 50 ml, 1 Imprint™ 4 Regular cartridge – 50 ml, 1 Imprint™ 4 Penta™ Putty cartridge, 10 Penta™ Mixing Tips red, 5 3M™ ESPE™ Intra-Oral Syringes green, 5 Garant™ Mixing Tips yellow, | 71489 | Imprint™ 4 Super Quick Regular Refill 4 Imprint™ 4 Super Quick Regular cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green |
| 71494 | 5 Garant™ Intra-Oral Tips yellow, 1 VPS tray adhesive | | Single-Use Syringe for VPS – For Wash Delivery |
| 11494 | Imprint™ 4 Penta™ Heavy Intro Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Light cartridge – | 71505 | 3M ESPE Intra-Oral Syringe - Green Refill Pack – 20 Syringes |
| | 50 ml, 1 Imprint™ 4 Regular cartridge – 50 ml, 1 Imprint™ 4 Penta™ Heavy cartridge, 10 Penta™ Mixing Tips red, 5 3M™ ESPE™ Intra-Oral Syringes | 71506 | 3M ESPE Intra-Oral Syringe - Green Value Pack – 50 Syringes |
| | green, 5 Garant** Mixing Tips yellow, 5 Garant** Intra-Oral Tips yellow, 1 VPS tray adhesive | | |
| 71495 | Imprint™ 4 Penta™ Super Quick Heavy Intro Kit | | Cartridges for Pentamix™ 3 |
| | 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick | 77786 | Imprint™ 4 Penta™ Putty |
| | Light cartridge – 50 ml, 1 Imprint™ 4 Super Quick Regular cartridge – 50 ml, 1 Imprint™ 4 Penta™ Super Quick Heavy cartridge, 10 Penta™ | 77784 | Imprint™ 4 Penta™ Heavy |
| | Mixing Tips red, 5 3M™ ESPE™ Intra-Oral Syringes green, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow, 1 VPS tray adhesive | 77785 | Imprint™ 4 Penta™ Super Quick Heavy |
| | | | Cartridges for Pentamix™ LITE |
| | Refills - Tray Materials | 77944 | Penta™ Cartridge for Pentamix™ Lite |
| 71486 | Imprint™ 4 Penta™ Putty Refill 2 base pastes – 300 ml each, 2 catalysts – 60 ml each | | |
| 71484 | Imprint™ 4 Penta™ Heavy Refill | | 3M™ ESPE™ Astringent Retraction Paste |
| | 2 base pastes – 300 ml each, 2 catalysts – 60 ml each | 56944 | Refill Pack – 25 capsules |
| 71485 | Imprint™ 4 Penta™ Super Quick Heavy Refill 2 base pastes – 300 ml each, 2 catalysts – 60 ml each | 56945 | Value Pack – 100 capsules |
| 71492 | Imprint™ 4 Heavy Refill | | Pentamix™ Automatic Mixing Units & Accessories |
| | 4 Imprint™ 4 Heavy cartridges – 50 ml each, 10 Garant™ Mixing Tips green | | Pentamix™ 3 Automatic Mixing Unit |
| 71493 | Imprint™ 4 Super Quick Heavy Refill | | Pentamix™ Lite Automatic Mixing Unit |
| | 4 Imprint™ 4 Super Quick Heavy cartridges – 50 ml each, 10 Garant™ Mixing Tips green | 77949 | Penta™ Mixing Tips – Red, 50 each |
| | To darant. Wixing tipo groon | 77580 | Garant™ Dispenser 1:1/2:1, 1 each |
| | NEW Imprint™ 4 Preliminary Refills – Tray Materials | 71452 | Garant™ Mixing Tips yellow, 50 each |
| 71521 | Imprint™ 4 Preliminary Penta™ | 71462 | Garant™ Intra-oral Tips yellow, 50 each |
| | 2 base pastes – 300 ml each, 2 catalysts – 60 ml each | 71460 | Garant™ Intra-oral Tips Bite, 50 each |
| 71522 | Imprint™ 4 Preliminary Penta™ Super Quick 2 base pastes – 300 ml each, 2 catalysts – 60 ml each | | 2M™ ECDE™ Impression Tray Potille (each containing 40 trays) |
| | | 71615 | 3M™ ESPE™ Impression Tray Refills (each containing 10 trays) Size S, upper jaw |
| | NEW Imprint™ 4 Bite - Bite Registration Material | 71616 | Size M, upper jaw |
| 71529 | Imprint™ 4 Bite Refill | | Size L, upper jaw |
| | 2 Imprint™ 4 Bite cartridges – 50 ml each, 5 Garant™ Mixing Tips green, 5 Garant™ Intra-oral Tips Bite | 71617 71618 | Size S, lower jaw |
| | | 71619 | Size M, lower jaw |





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Size L, lower jaw

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