

Impression Solutions

# Impregum™

## Polyether Impression Materials



Extremely  
precise

**3M** ESPE

# 3M ESPE – leading impression solutions



You + 3M ESPE =

Groundbreaking ideas for dentistry

Taking precision impressions is a critical step in providing patients with high-quality restorations. As the worldwide leader in impression solutions,

3M™ ESPE™ is renowned for its dedication to quality and its innovative products. Since the introduction of the first impression materials more than 40 years ago, 3M ESPE innovations have continuously advanced impression technology. Impregum™ Polyether Impression Material – a ‘made in Germany’ success story.

## Impregum™ Polyether Impression Material – highest precision on the first take.

Impregum Polyether Impression Material, which was an absolute novelty at the time of its launch, soon became very well respected for its high precision level. Over the years, through a continuous innovation process, our Impregum polyether product line has undergone major improvements: it is significantly easier to handle and remove from mouth and model and patients prefer its pleasant new minty taste.



A perfect symbiosis: Together with the Pentamix™ 3 you get additional speed and comfort.

Thousands of dentists worldwide have already taken advantage of the benefits of automatic mixing impression materials with the Pentamix™ System from 3M ESPE. The latest-generation Pentamix™ 3 Automatic Mixing Unit is not only the fastest and smallest device available but also lets you easily dispense a completely homogeneous and void-free mix. Together with our Impregum™ Penta™ Impression Materials you will benefit from a very well-tuned system – designed to provide you with high-quality mixtures, improve your daily work and make your processes faster and more convenient.

# Quality

### What Pentamix 3 users are saying

*“Saves time and mess, accurate dosage.”*

*“Quick, clean, up-to-date design ...”*

*“... just switch on and work.”*

*“Easy and stress-free mixing.”*

*“Whole unit is amazing ...”*

*“No waste ...”*



## Products designed for the way you like to work ...

For almost every indication and clinical situation, 3M ESPE provides the appropriate Penta™ Polyether or VPS impression material. To suit all dental professionals' preferences and techniques, 3M ESPE Penta impression materials are available in a variety of viscosities and set/working times.\* The VPS hand-mix versions complete the line of impression materials.

\* Compatibility with other mixing devices guaranteed.

# Your direct path to perfection

Impregum™ Penta™ Polyether Impression Materials – established for many years and repeatedly awarded by many independent rating institutes – have practically become a synonym for top-notch impression precision. With their unique product characteristics, Impregum materials help dentists to achieve excellent impression results.

Recently rewarded with:



## Benefits

### More comfort for your patients

- Less retakes
- For perfect impressions on the first try
- Easy tray removal and pleasant minty flavour of “Soft” materials

### Real benefits for your practice

- High-quality, finely detailed impressions thanks to its superior features
- Better-fitting restorations requiring fewer adjustments
- Save time and money with reliably perfect results on the first try

### ... and advantages for your lab

- Easy removal from the model
- Fewer costly, time-consuming adjustments and reworks
- More efficient cooperation between lab and dentist

Recent surveys show, that Impregum™ Polyether Impression Material from 3M ESPE has the highest recommendation rate from labs in Europe and the United States.

### What dentists are saying about Impregum™

*“Ever since its launch, I’ve been a confident user of Impregum.”*

*“Impregum is super – it’s suitable for every application. There’s nothing like it.”*

*“... because I’m enthusiastic about Impregum.”*

*“Impregum excels by its excellent impression quality.”*

*“Precision and dimension rendering are superior... proven, precise and good.”*

*“Satisfaction based on using Impregum for 35 years.”*



### What labs are saying

*“Hier steht inhaltlich betrachtet nur Blindtext.”*

*“Auch an dieser Stelle wird nur Blindtext aufgeführt.”*

*“... Hier steht inhaltlich betrachtet nur Blindtext.”*

*“An dieser Stelle wird nur Blindtext aufgeführt.”*

*“... Hier steht inhaltlich betrachtet nur Blindtext.”*

*“Hier steht inhaltlich betrachtet nur Blindtext.*

*Hier steht inhaltlich betrachtet nur Blindtext.”*

### Indications

- Crown and bridge impressions
- Inlay and onlay impressions
- Functional impressions
- Implant impressions



# Impregum™ Polyether Impression Materials: excellent fit due to maximum precision

Top-of-the-class detail reproduction due to outstanding initial hydrophilicity.

Polyether is hydrophilic by nature, preventing moisture and saliva from compromising marginal accuracy and integrity. Impregum's **outstanding initial hydrophilicity** displaces moisture right from the first contact with tissue. Hence, from the time it is mixed until it sets, moisture in the mouth does not interfere with achieving accurate, void-free impressions. This results in **great detail reproduction** in a wet environment – which is why most dentists prefer Impregum over VPS.

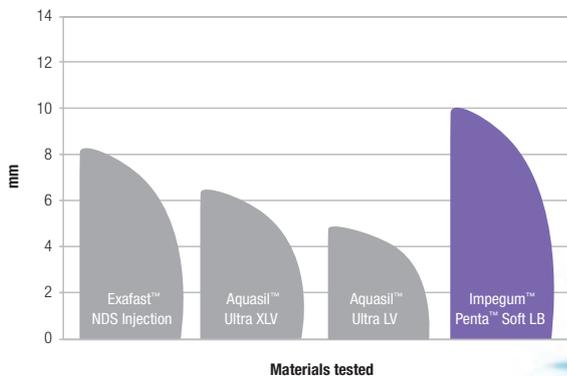


Water drop on unset Aquasil impression material (left, Dentsply) and on unset Impregum™ Penta™ Soft Material (right, 3M ESPE): Impregum™ exhibits a significantly lower contact angle and therefore higher hydrophilicity.

## Precision

Capture fine detail thanks to excellent flow properties.

The Shark Fin Test\* proves it: Impregum™ Penta™ Soft (Quick) Polyether Material flows smoothly into the toughest spots, yet does not slump – capturing fine detail and delivering highly accurate precision impressions. In fact, it offers the best flow behaviour throughout the entire working time.



**Shark Fin Test:** Compared to all the VPS impression materials tested, Impregum™ Polyether Material shows the highest shark fin and thus the best flowability.

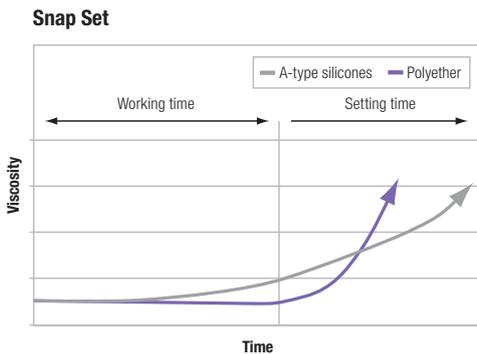
## Flow behaviour

\* An established method for analysing flow properties is the so-called Shark Fin Test, developed by impression experts at 3M ESPE. The results shown are at the end of the manufacturers' recommended working times.

# Snap-set

Less stress due to unique “snap-set behaviour”.

Impregum™ Penta™ Soft (Quick) material is ultra-forgiving. Its snap-set behaviour ensures that it will not start setting before the working time ends; when it does, though, it does so immediately. Hence, the indicated working time can actually be used to full capacity.



**Polyether materials have longer working times than VPS impression materials.**

Source: 3M ESPE

## Impregum™ Penta™ Soft Quick Material: hard to beat for speed, precision and convenience

Reduce the time spent, not the quality.

Featuring the same proven performance and accuracy as the entire Impregum family, the ‘Quick’ version cuts working and setting time by a significant 33%\*: it offers a maximum working time of 1 minute and a setting time of 3 minutes in the mouth.

Especially designed for crowns and (smaller) bridges – this fast-setting material helps you save valuable practice time and lets your patient get out of the chair faster, leading to a more comfortable patient experience.

This gain in working time can also not be reached by any fast-setting VPS material.

\* Compared to regular-setting Impregum™ Penta™ Soft Material.

# Time-saving



# Impregum™ materials at a glance

Different formulas, the same precision: Impregum™ Penta™ Soft Polyether Impression Materials have been developed especially for the **monophase technique**. Impregum Penta Polyether Impression Materials are suitable for every technique and indication.



## Monophase Technique

Overview according to technique.

### Monophase technique

Tray Material	
	<b>Impregum™ Penta™ Soft</b> ▶ Easy removal from the mouth and fresh minty flavour
	<b>Impregum™ Penta™ Soft Quick</b> ▶ Especially designed for crowns and smaller bridges
	<b>Impregum™ Penta™</b> ▶ Original high-precision polyether for automatic mixing

## Overview

### 1-step tray/wash technique

Tray Material	Recommended Wash Materials	Wash Material
<b>Impregum™ Penta™ H DuoSoft™</b> ▶ Suitable for the 1-step tray/wash technique		
	Impregum™ Garant™ L DuoSoft™	
	Impregum™ Penta™ L DuoSoft™	
<b>Impregum™ Penta™ H DuoSoft™ Quick</b> ▶ Designed for crowns and smaller bridges using the 1-step tray/wash technique		
	Impregum™ L DuoSoft™ Quick	



# More impression system products from 3M ESPE

## Pentamix™ 3 Automatic Mixing Unit – Enhanced mixing accuracy and convenience.

### Features

- Dispenses 3M ESPE Penta™ Materials **twice as fast** as Pentamix™ 2 and faster than any other automatic mixer
- **Saves valuable counter space** with the smallest footprint on the market
- **Easier and more convenient** handling
- **Suitable for polyether, VPS and alginate replacement materials**

### Benefits

- **Time-saving** work procedure
- **Homogeneous, void-free mixtures** of reproducible quality
- **Direct and hygienic filling** of tray and syringe
- **No wastage of material** due to exact dosing
- **More efficient workflow** and higher productivity



## Express™ 2 VPS Impression Materials – Designed for the 1-step and 2-step impression techniques.

### Features

- **Superior hydrophilicity** and **flow behaviour**
- **Excellent toughness**
- Almost **100% recovery** from deformation

### Benefits

- **Excellent detail reproduction** and **high impression precision**
- **Distortion-free removal** from mouth and model
- **Fewer remakes**

### Indications

- Crown and bridge impressions
- Inlay and onlay impressions



## Position™ VPS Alginate Replacement – Highest convenience for preliminary impressions.

### Features

- **High accuracy**
- **Elastic recovery**
- **High dimensional stability**
- **Fast working and setting times** at room temperature
- **Completely submersible in disinfectant solution**

### Benefits

- **High impression precision**
- **Less distortion**
- **Suitable for multiple pouring** plus no need for immediate casting
- **Time savings**
- **Easy and thorough disinfection**

### Indications

- Preliminary impressions
- Impressions for temporary restorations
- Opposing dentition impressions
- Study model impressions
- Impressions for orthodontic models
- Impressions for fabrication of splints/mouthguards



# Ordering Information

## Item No. Product Information

### Intro Kits

<b>P31684</b>	<b>For Pentamix™ 3: Impregum™ Penta™ Intro Kit</b> 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ Cartridge, 10 Penta™ Mixing Tips Red, 1 Penta™ Elastomer Syringe, 1 bottle polyether adhesive – 17 ml
<b>31684</b>	<b>For Pentamix™ 2: Impregum™ Penta™ Intro Kit</b> Kit contents see item no. P31684
<b>P31734</b>	<b>For Pentamix™ 3: Impregum™ Penta™ Soft Intro Kit</b> 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ Soft Cartridge, 10 Penta™ Mixing Tips Red, 1 Penta™ Elastomer Syringe, 1 bottle polyether adhesive – 17 ml
<b>31734</b>	<b>For Pentamix™ 2: Impregum™ Penta™ Soft Intro Kit</b> Kit contents see item no. P31734
<b>P31770</b>	<b>For Pentamix™ 3: Impregum™ Penta™ Soft Quick Intro Kit</b> 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ Soft Quick Cartridge, 10 Penta™ Mixing Tips Red, 1 Penta™ Elastomer Syringe, 1 bottle polyether adhesive – 17 ml
<b>31770</b>	<b>For Pentamix™ 2: Impregum™ Penta™ Soft Quick Intro Kit</b> Kit contents see item no. P31770
<b>P31738</b>	<b>For Pentamix™ 3: Impregum™ Penta™ H DuoSoft™ Intro Kit</b> 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ H DuoSoft™ Cartridge, 10 Penta™ Mixing Tips Red, 2 Impregum™ Garant™ L DuoSoft™ Cartridges – 50 ml, 1 Garant™ Dispenser 1:1/2:1, 10 Garant™ Mixing Tips White, 10 Garant™ Intra-oral Tips White, 1 bottle polyether adhesive – 17 ml
<b>31738</b>	<b>For Pentamix™ 2: Impregum™ Penta™ H DuoSoft™ Intro Kit</b> Kit contents see item no. P31738
<b>P31772</b>	<b>For Pentamix™ 3: Impregum™ Penta™ H DuoSoft™ Quick Intro Kit</b> 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Impregum™ Penta™ H DuoSoft™ Quick Cartridge, 10 Penta™ Mixing Tips Red, 2 Garant™ Cartridges – 50 ml, 10 Garant™ Mixing Tips White, 10 Garant™ Intra-oral Tips White, 1 bottle polyether adhesive – 17 ml
<b>31772</b>	<b>For Pentamix™ 2: Impregum™ Penta™ H DuoSoft™ Quick Intro Kit</b> Kit contents see item no. P31772

## Item No. Product Information

### Refills – tray & wash materials

<b>31644</b>	<b>Impregum™ Penta™ Refill</b> 2 base pastes – 300 ml, 2 catalysts – 60 ml
<b>31730</b>	<b>Impregum™ Penta™ Soft Refill</b> 2 base pastes – 300 ml, 2 catalysts – 60 ml
<b>31764</b>	<b>Impregum™ Penta™ Soft Quick Refill</b> 2 base pastes – 300 ml, 2 catalysts – 60 ml
<b>31740</b>	<b>Impregum™ Penta™ H DuoSoft™ Refill</b> 2 base pastes – 300 ml, 2 catalysts – 60 ml
<b>31768</b>	<b>Impregum™ Penta™ H DuoSoft™ Quick Refill</b> 2 base pastes – 300 ml, 2 catalysts – 60 ml
<b>31745</b>	<b>Impregum™ Penta™ L DuoSoft™ Refill</b> 2 base pastes – 300 ml, 2 catalysts – 60 ml
<b>31751</b>	<b>Impregum™ Garant™ L DuoSoft™ Refill</b> 4 Garant™ Cartridges – 50 ml, 20 Garant™ Mixing Tips White
<b>31766</b>	<b>Impregum™ L DuoSoft™ Quick Refill</b> 4 Garant™ Cartridges – 50 ml, 20 Garant™ Mixing Tips White

### Cartridges

<b>P3792</b>	<b>For Pentamix™ 3: Impregum™ Penta™ Cartridge</b>
<b>77792</b>	<b>For Pentamix™ 2: Impregum™ Penta™ Cartridge</b>
<b>P3787</b>	<b>For Pentamix™ 3: Impregum™ Penta™ Soft Cartridge</b>
<b>77787</b>	<b>For Pentamix™ 2: Impregum™ Penta™ Soft Cartridge</b>
<b>P3775</b>	<b>For Pentamix™ 3: Impregum™ Penta™ Soft Quick Cartridge</b>
<b>31775</b>	<b>For Pentamix™ 2: Impregum™ Penta™ Soft Quick Cartridge</b>
<b>P3793</b>	<b>For Pentamix™ 3: Impregum™ Penta™ H DuoSoft™ Cartridge</b>
<b>77793</b>	<b>For Pentamix™ 2: Impregum™ Penta™ H DuoSoft™ Cartridge</b>
<b>P3773</b>	<b>For Pentamix™ 3: Impregum™ Penta™ H DuoSoft™ Quick Cartridge</b>
<b>31773</b>	<b>For Pentamix™ 2: Impregum™ Penta™ H DuoSoft™ Quick Cartridge</b>
<b>P3795</b>	<b>For Pentamix™ 3: Impregum™ Penta™ L DuoSoft™ Cartridge</b>
<b>77795</b>	<b>For Pentamix™ 2: Impregum™ Penta™ L DuoSoft™ Cartridge</b>

### Accessories

<b>30600</b>	1 bottle polyether adhesive – 17 ml
--------------	-------------------------------------

## Our Expertise™ guidebooks

- ➔ **Expertise™ Impressioning Compendium**
- ➔ **Expertise™ Impressioning Trouble Shooting Guide**
- ➔ **Scientific Booklet**
- ➔ **Clinical Case Studies From Around the World**



**3M ESPE**

3M Deutschland GmbH  
Location Seefeld  
3M ESPE · ESPE Platz  
82229 Seefeld · Germany  
info3mespe@mmm.com  
www.3MESPE.com

**You + 3M ESPE =**

Groundbreaking ideas for dentistry

3M, ESPE, DuoSoft, Expertise, Express, Garant, Impregum, Penta, Pentamix and Position are trademarks of 3M or 3M ESPE AG.

Aquasil and Exafast are not trademarks of 3M or 3M ESPE AG.

©3M 2010. All rights reserved.

01 (09.2010)