# Product Data Sheet

# Palatal K 790 V-02

## Chemical/physical nature

Palatal K 790 V-02 is a vinylester, dissolved in methacrylates.
The resin has a high reactivity and a low viscosity.
Palatal K 790 V-02 contains amine accelerators

## Major applications

Palatal K 790 V-02 can be used for different fields of application, whenever a styrene free resin is requested for safety reasons or declaration purpose such as flooring, auto-extinguish laminates, warm press processes and putties.

## Properties of the liquid resin (specifications)

| Property | Range | Unit | TM |
|---|---|---|---|
| Viscosity, 23°C | 200 - 400 | mPa.s | 2013 |
| Gel time from 25-35 °C | 4 – 6 | Min | 2625 |
| Cure time from 25°C to peak | 6 – 8 | Min | 2625 |
| Peak temperature | 130 - 170 | °C | 2625 |

Remarks
Viscosity measurement: Z2/100 $s^{-1}$/23°C
Reactivity measurement: 15 g Perkadox 20 (AKZO-Nobel) added to 100 g of resin

## Properties of the liquid resin upon delivery (typical values)

| Property | Value | Unit | TM |
|---|---|---|---|
| Flash point | ± 110 | °C | 2800 |
| Density | ± 980 | Kg/$m^3$ | 2160 |
| Stability, no init., dark, 25°C | 6 | months | - |

## Processing

As Palatal K 790 V-02 is intended for a lot of different processes it is recommended to test in each case the suitability for the specific production process. The suitability of Palatal K 790 V-02 for a specific formulation of putty or fixing masses has to be tested by the processor. The performance of tests and acceptance of the resin for chemical anchoring is the exclusive responsibility of the processor.
It should be taken into account that fillers, colours or other additives used in the production of putties and fixing masses may influence not only the shelf life, but also the curing behaviour of the resin.
Palatal K 790 V-02 contains amine accelerator and thus can be cured by hardeners based on benzoyl peroxide. Due to the specific monomer composition of Palatal K 790 V-02 the dissolution of BP-hardeners is reduced.
To overcome this particular behaviour we recommend to use higher amounts of low concentrated BP-hardeners f.e. Perkadox 20 instead of standard amounts of BP-hardeners with the normal 50 % concentration.
Nevertheless the calculated quantity of pure BP should be similar in both cases.

## Guidelines before use

Before use the resin should be conditioned at a well defined, application dependant temperature.

## Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°C. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage.
Store in dark and in 100% light tight containers only.

## Material Safety

A material safety data sheet for the product is available on request.

## Test methods

Test methods (TM) referred to in the table(s) are available on request.



This document has been issued by DSM Composite Resins on behalf of the DSM Selling Entity. For more information: www.compositeresins.com



Date of issue:March 12 Version: 012511/5.0