

# DENKA PRETASCON TYPE-M

Non-Shrink Mortar for Grout (For Use in Massive Mortar)

## Description

**DENKA PRETASCON TYPE-M** is a premixed, non-shrink dry mortar developed for grouting needs. It is prepared by simply mixing with water. As a grouting material, **DENKA PRETASCON TYPE-M** boasts high fluidity and can be injected to fill spaces while reducing void formation.

## Features

- Subsidence and shrinkage are prevented by its moderate expansion, enabling high integration with base concrete that which leads to higher performance and long-term durability
- Heat-resistant, mitigating cracks caused from heat of hydration
- Excellent fluidity at high temperatures (35°C)

## Applications

- Grouting under heavy machinery
- Steel structure foundations
- Building reinforcement

## Packaging and General Information

- Packaging: 25kg paper bags
- Binder to sand ratio: 1:2
- External appearance: Gray-white
- Usage temperature range: 10~35°C
- Water mix ratio: 3.5~4.3kg/bag

## Shelf Life

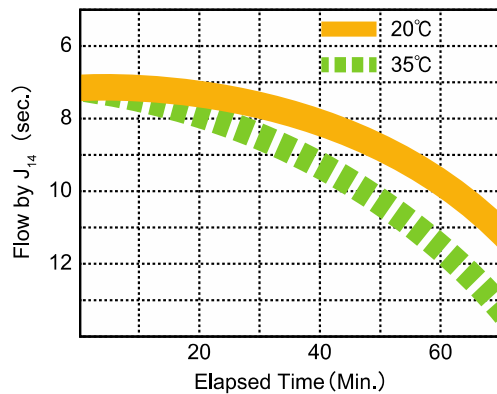
- 8 months from production date
- Determine the production date by reference to the lot number. A lot number of "1AXXX" corresponds to production in Jan 2001; "2BXXX" to Feb 2002 and so on.

## Standard Mix Proportions

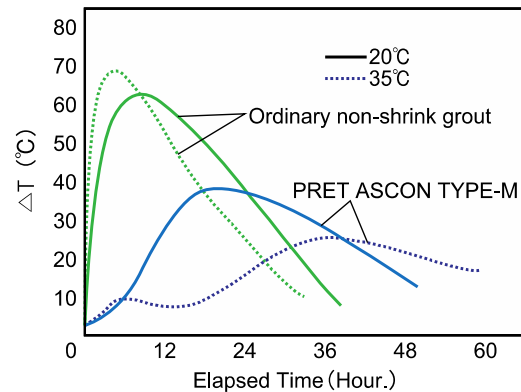
Unit	Target J <sub>14</sub> flow value (s)	W/T-M (%)	Kg/m <sup>3</sup>		Mortar volume (L)
			PRETASCON TYPE-M	Water	
Per m <sup>3</sup>	8±2	15.7	1,900	298	1,000
Per bag	8±2	15.7	25	3.9	13.0

## Physical Properties of Mortar (Typical Values)

### 1) Fluidity



### 2) Adiabatic Temperature Rise



### 2) General Properties

Curing temp. (°C)	Water (kg/bag)	Bleeding (%)	Expansion <sup>1</sup> (%)	Setting time	
				Initial	Final
5	4.1	0.00	0.20	17h 00mins	24h 00mins
20	3.9	0.00	0.35	7h 00mins	9h 00mins
30	3.8	0.00	0.40	5h 00mins	6h 20mins

<sup>1</sup>Measured at 28 days.

### 3) Compressive Strength

Curing temp.	Compressive Strength (MPa)			
	Day 1	Day 3	Day 7	Day 28
5°C <sup>3</sup>	0.6	10.1	26.1	40.2
20°C	11.9	31.4	38.9	49.2
30°C	19.2	32.5	42.0	51.0

<sup>3</sup>Mortar temperature taken right after mixing is 20°C. The mortar is then cooled and cured at 5°C.

## Handling Precautions

- Refer to the Safety Data Sheet (SDS) before use.
- Use a stainless steel or iron agitating blade. Do not use an aluminum blade because hydrogen gas evolution can occur while mixing the mortar; resulting in explosions.
- Mix grout with the specified quantity of water. Using quantities outside the specified range may affect the performance of the non-shrink mortar.
- Use clean water free from oils, salts, or organic compounds.
- Before beginning injection work, optimize water quantity in mixing trials and remove oily residues, laitance, and mud from the surface of structures.
- Wear protective gear (goggles, mask, gloves, and rubber boots) while handling the product.
- Do not dispose of the product in drains.
- Once opened, the product should be used up completely. Otherwise, reseal for storage.
- The product should be stored in a dry area, indoors, and out of direct sunlight
- For further information, please contact DENKA.

## Limitation of Liability

The information contained in this brochure provides general advice for potential customers of DENKA about the basic properties and characteristics of various DENKA products (hereafter referred to as “the Product Information”). DENKA makes no warranty or representation as to the entire accuracy or completeness of the Product Information in this brochure. Nothing in this brochure will be deemed to create any express or implied warranty or obligation of DENKA with respect to the Product Information or its use, including, but not limited to, any warranty of merchantability, fitness for a particular purpose, or infringement of any intellectual property rights. Each user of the Product Information and DENKA products assumes their own responsibility to properly determine the manner and suitability of use of the Product Information and DENKA products in its own operations. The user should exercise proper care in considering the Material Safety Data Sheet, Product Information and any other technical information provided by DENKA, including descriptions of the conditions of use, warnings, and other cautionary instructions. DENKA reserves the right to change the Product Information from time to time at its discretion and without notice.

---

**Denka**  
<http://www.denka.co.jp/eng/>

**Denka Co. Ltd.**

Special Cement Additives Department  
TEL: +81-3-3507-5465 FAX: +81-3-3507-5085

**-China-**

**DENKA INFRASTRUCTURE  
TECHNOLOGIES SHANGHAI**

ROOM 2807, NEW HONGQIAO  
CENTER BLDG  
NO.83 LOUSHANGUAN RD,  
CHANG NING AREA, SHANGHAI CHINA  
TEL: +86-21-6236-5510  
FAX: +86-21-6236-5505

**-Asia-**

**DENKA INFRASTRUCTURE  
TECHNOLOGIES PTE LTD**

4 SHENTON WAY #29-02 SGX  
CENTRE 2 SINGAPORE 068807  
TEL: +65-6216-0580  
FAX: +65-6224-3840

**-Europe-**

**DENKA CHEMICALS GMBH**

WEHRHAHN-CENTER, CANTADOR STR.3,  
DUSSELDORF, GERMANY  
TEL: +49-211-130990  
FAX: +49-211-329942