

DENKA PRETASCON TYPE-1R

Non-Shrink Mortar for Grout (Enhanced Fluidity)

Description

DENKA PRETASCON TYPE-1R is a premixed, non-shrink dry mortar developed to meet customer needs.

Features

- Easy to use; fluidity of mortar ensures that spaces can be filled fully while avoiding voids
- Bonds well with existing concrete structures, preventing any gaps that lead to bleeding. Also minimizes sedimentation and shrinkage by virtue of moderate expansibility and non-shrinkage.
- Excellent durability; desired strength achievable in 1~3 days with proper curing
- Quality assured independent of ambient temperature (5~35°C)
- Excellent quality, economical, cost-effective

Applications

- Standard grout work
- Large volume / surface area foundations
- Long-distance pumping

Packaging and General Information

- **TYPE-1R:** 25kg plastic bags
- Binder to sand ratio: 1:1
- Appearance: Gray-white
- Usage temperature range: 5~35°C
- Water mix ratio: 4.2-4.9kg/bag

Shelf Life

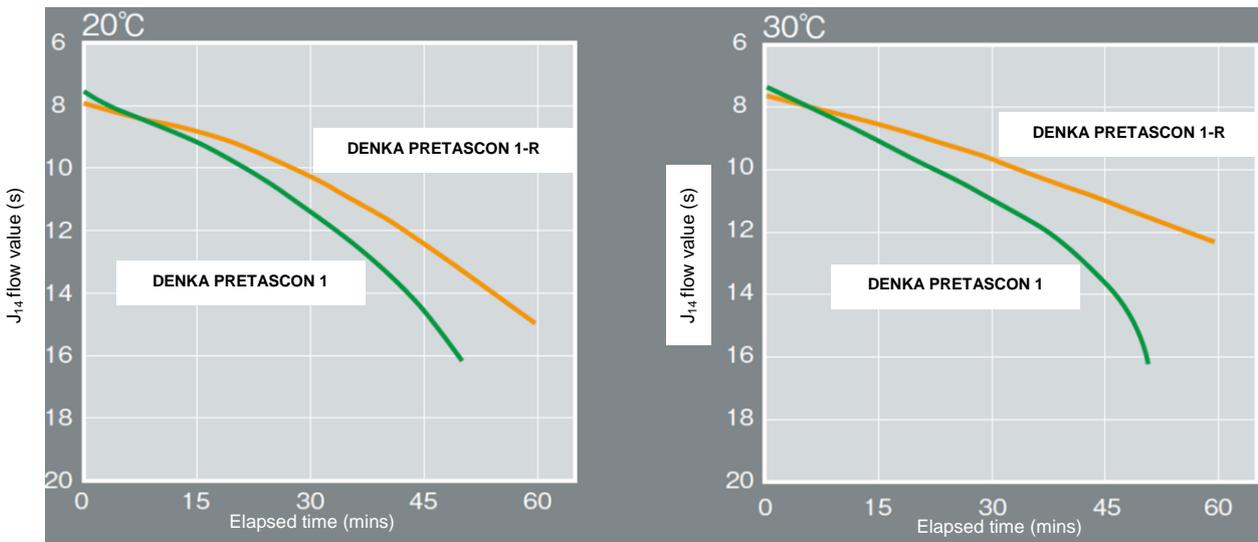
- 8 months from production date
- Determine the production date by reference to the lot number. A lot number of "1AXXX" corresponds to production in Jan 2001; "2BXXX" to Feb 2002 and so on.

Standard Mix Proportions

Unit	J ₁₄ flow value (s)	W/(C+T) (%)	Unit weight (kg/m ³)		Quantity
			DENKA PRETASCON TYPE-1R	Water	
Per m ³	8±2	36.0	1875	338	75bags
Per bag (25kg)	8±2	36.0	25	4.5	13.3l

Physical Properties (Arbitrary Values)

- Water retention (gelling time)



- General properties

Product	Curing temp (°C)	Water amount (kg/bag)	Bleeding ratio (%)	Expansion ratio (%)	Setting time	
					Initial	Final
PRETASCON TYPE-1R	5	4.75	0.00	0.35	14h 35min	19h 00min
	20	4.50	0.00	0.51	6h 15min	7h 45min
	30	4.38	0.00	0.53	4h 30min	5h 30min

- Compressive strength

Product	Curing temp (°C)	Compressive strength (MPa)			
		Day 1	Day 3	Day 7	Day 28
PRETASCON TYPE-1R	5 ¹	2.5	25.2	40.3	53.2
	20	21.7	43.1	51.1	62.3
	30	34.8	50.9	57.7	67.8

¹Mortar at 5°C was first mixed at 20°C before curing at 5°C.

Mixing

- Mixing can be carried out either using a high speed mixer or a hand mixer with an agitating blade rotating at 900 rpm or higher.
- Mixing time is approximately 1 to 2 minutes.

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.
- Once grout is completely applied, keep it away from direct sunlight or wind and ensure that the grout is constantly moist during curing. Cracks may appear on the grout surface if curing is incomplete. Cracks may also appear on exposed surfaces if drying takes place too rapidly etc.
- Coat the mold used for compression strength tests with a demoulding agent. After pouring in the mortar, keep the surface from drying by film wrapping etc.
- Do not dispose of the product in drains.
- Once opened, the product should be used up completely within the same day.
- The product should be stored in a dry area, indoors, and out of direct sunlight
- For further information, please contact DENKA.

Limitation of Liability

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