

TIMM-CAR D

Retarding agent for concrete viscosity control

Description

TIMM-CAR D is a high performance retarding agent for high strength, high fluidity and high durability concrete. thus it can be widely used for skyscrapers and large constructions. It is especially effective to improve Slump Flow Loss of concrete using with a high performance AE water reducer.

Characteristics

- Not at all influence a construction period because there is no delay setting time
- Results in good workability as elapsed time.
- Shows good slump retention.

Main Applications

- Skyscrapers and large size buildings.
- Self-compacting concrete structures requiring high fluidity.
- Bridges requiring high strength and durability.
- Pre-cast concrete structures with consistent concretes.

Product Packaging

- Tank truck: 1TM, 5TM, 10TM, 20TM
- 10kg & 20kg Can; 200kg Drum

Physical Properties

- Specific gravity: $1,110 \pm 0,01$
- Viscosity: 350 ± 100 cPs
- Solid %: $50,0 \pm 1,0$
- PH: $5,5 \pm 1,0$

Cautions

- Don't mix with other chemical admixtures.
- In case of the freezing of the product, warm at 30°C and mix it fully.
- Consult with TECHMO's technical service engineer,
 - if entrained air needs to be adjusted.
 - if storing for a long time and thereafter using it.
- Don't use it for other uses except manufacturing concretes as chemical admixtures.
- Wash with enough flowing water if it is contacted on skin or clothes.

Use

- For manufacturing concretes of general strength:
 - Weight % of Binder: 0.2 ~ 0.5%
- For manufacturing concretes of high strength and fluidity:
 - Weight% of Binder: 0.2 ~ 0.8%
- Decide a target dosage depending on mix design conditions, materials used, temperatures, & mixer types.
- Mix with TIMM-CAR 300 N if requiring initial dispersion.

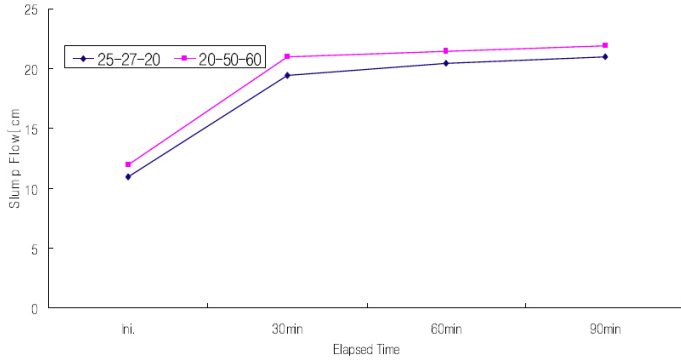
Concrete Test

Concrete Mix Design and Results

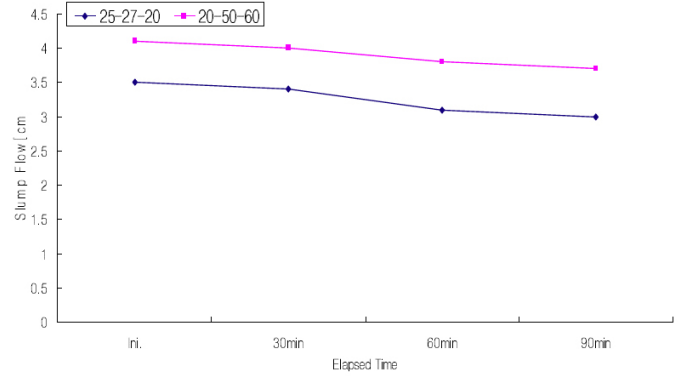
	Item	AD (B X%)	A/G (%)	A/N (%)	Unit Quantities (kg/m3)						Slump (cm)				Air Content (%)			
					A	C	C/V	A1	A2	G	Ini.	30min	60 min	90 min	Ini.	30min	60min	90min
25-27-20	TIMM-CAR D	0.45	40.0	47.0	165	330	83	648	164	930	11.0	19.5	20.5	21.0	3.5	3.4	3.1	3.0
20-50-20	TIMM-CAR D	0.55	32.0	44.0	160	400	100	729	-	946	12.0	21.0	21.5	22.0	4.1	4.0	3.8	3.7

w: water. c: OPC. F/A: Fly Ash, S1: Washing Sand. S2: Grinding Sand. G: Gravel Max 20. 25mm

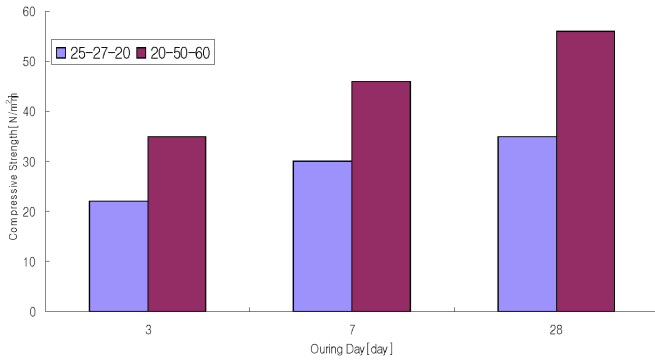
Slump Flow



Air Content (%)



Compressive Strength



NOTA:

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